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RAILS AND ACCESSORIES

THE PENNSYLVANIA STEEL CO.

MARYLAND STEEL CO.

1905

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Very truly yours,

H B Green

Sales Agent.

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Manufactured by

THE PENNSYLVANIA STEEL CO., STEELTON, PA.

and

MARYLAND STEEL CO., SPARROW'S POINT, MD.

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Index to Rail Sections

A. S. C. E. Tee Rails

Weight per Yard Pounds	No. of Section	Page	Weight per Yard Pounds	No. of Section	Page	Weight per Yard Pounds	No. of Section	Page
110	268	18	75	214	23	45	266	30
100	247	19	70	237	25	40	138	31
95	267	20	65	236	26	35	265	32
90	245	21	60	244	27	30	269	33
85	235	22	55	130	28	25	264	34
80	251	24	50	129	29	..	..	..

Miscellaneous Tee Rails

100	100	36	75	92	48	50	22	60
100	96	37	75	87	49	48	88	61
95	147	38	74	146	50	45	36	62
90	77	39	70	97	51	40	32	63
85	261	40	70	57	52	35	43	64
85	67	41	68	62	53	30	44	65
80	220	42	67	2	54	25	45	66
79	76	43	66	145	55	20	47	67
78	98	44	60	6	56	16	48	68
76	216	45	58¼	63	57	12	66	69
75	249	47	58	7	58	..	..	..
75	221	46	56	51	59	..	..	..

Flat Rails

97	95	75	60	15	73	42	13	72
96	20	74	47	17	73	..	..	..
62	19	74	47	14	72	..	..	..

High Tee Rails

Weight per Yard Pounds	No. of Section	Page	Weight per Yard Pounds	No. of Section	Page	Weight per Yard Pounds	No. of Section	Page
79	271	78	62	242	80	56	253	82
70	206	79	60	209	81	..	..	..

Girder Rails

141	263	84	94	224	88	85	219	92
107	254	98	90	259	97	85	201	91
107	228	85	90	255	99	83	211	104
104	260	86	90	243	100	80	238	105
98½	241	87	90	200	89	80	91	106
95	258	96	87	240	90	75	85-A	109
96	223	94	87	217	101	72	94	107
95	222	93	85	257	102	70	85	108
94	226	95	85	256	103	..	..	..

Girder Guard Rails

128	250	114	100	230	112	80	86	118
110	234	115	92	215	116	57½	262	125
103	208	113	92	212	117	..	..	..

Slot Rails and Conductor Bars

67	213	120	57	227	121	22.4	C	124
66	252	122	23.5	A	123	21	B	123

Specifications for Steel Rails

We are prepared to furnish rails manufactured to standard specifications of all large users of rails, but from long experience as manufacturers offer the following as standard specifications.

JANUARY 1ST, 1905

Chemical Composition

Section 1	50 Pounds up to 60 Pounds	60 Pounds up to 70 Pounds	70 Pounds up to 80 Pounds	80 Pounds up to 90 Pounds	90 Pounds up to 100 Pounds
Carbon	.35 to .45	.38 to .48	.40 to .50	.43 to .53	.45 to .55
Phosphorus	not over .10	not over .10	not over .10	not over .10	not over .10
Silicon	not over .20	not over .20	not over .20	not over .20	not over .20
Manganese	.70 to 1.00	.70 to 1.00	.75 to 1.05	.80 to 1.10	.80 to 1.10

Section

Section 2. Unless otherwise specified, the section of rail shall be the American standard, recommended by the American Society of Civil Engineers, and shall conform as accurately as possible to the templet furnished by the railroad company consistent with clause No. 3, relative to specified weight. An allowance in height of one sixty-fourth of an inch under, and one thirty-second of an inch over will be permitted. A perfect fit of the splice bars, however, shall be maintained at all times.

Weight

Section 3. The weight of the rails shall be maintained as near as possible, after complying with clause No. 2, to that specified in contract. A variation of one-half of one per cent. for an entire order will be allowed. Rails shall be accepted and settled for according to actual weights.

Length

Section 4. The standard length of rails shall be 30 feet. Ten per cent. of the entire order will be accepted in shorter lengths, varying by even feet down to 24 feet. A variation of one-quarter of an inch in length from the length specified will be allowed.

Branding

Section 5. The name of the maker and year of manufacture shall be rolled in raised letters on the side of the web, and the number of the heat shall be stamped on each rail.

Drilling

Section 6. Circular holes for splice bars shall be drilled in accordance with specifications of purchaser. They shall be accurate to drawing and dimensions furnished in every respect, and free from burrs.

Finishing

Section 7. Rails to be straightened while cold, to be smooth on head, to be sawed square at ends, and prior to shipment, to have the burr occasioned by saw cutting, removed, and to have the ends made clean. They are to be free from injurious defects and flaws of all kinds.

Inspection

Section 8. The inspector, representing the purchaser, shall have free access to the works of the manufacturer at all times while his contract is being executed, and shall have all reasonable facilities afforded to satisfy him that the rails are being made in accordance with specifications.

The manufacturer shall furnish the inspector, daily, with carbon determinations of each heat and a complete chemical analysis every twenty-four hours, representing the average of the other elements contained in the steel.

No. 2 Rails

Section 9. Rails which possess any injurious physical defects, or for any other cause are not suitable for the first quality, shall be considered No. 2 rails.

Specifications for Splice Bars

We are prepared to furnish splice bars manufactured to standard specifications of all large users of rails, but from long experience as manufacturers offer the following as standard specifications.

JANUARY 1ST, 1905

Chemical Composition

Section 1.

Carbon	not to exceed 0.15 per cent.
Phosphorus	not to exceed 0.10 per cent.
Manganese	0.40 to 0.60 per cent.

Physical Properties

Section 2. Test pieces cut from head of splice bar must show:

a. Ultimate strength—54,000 to 64,000 pounds per square inch.

b. Elastic limit—not less than one-half the ultimate strength.

c. Elongation—not less than 25 per cent. measured in 8 inches, or 203 millimeters.

d. Bending test—180 degrees. Flat on itself without fracture on outside of bent portion.

Finish

Section 3. All splice bars shall be smoothly rolled and true to templet. The name of maker and year of manufacture shall be rolled in raised letters on the side of the bar. The bar shall be sheared accurately to length and free from fins or cracks, and shall be perfect fit to the rails for which they are intended.

Workmanship

Section 4. The punching and notching of splice bars must be accurate in every respect to drawing and dimensions furnished.

Inspection

Section 5. The inspector, representing the purchaser, shall have free access to the works of the manufacturer at all times while his contract is being executed, and shall have all reasonable facilities afforded to satisfy him that splice bars are being made in accordance with specifications.

Tables Giving Details of Rails and Accessories

Rail and Joint Table

Rails to be 90 per cent. 30-foot lengths and 10 per cent. shorter lengths

Pounds per Yard	Gross Tons Rails per Mile of Track	Feet of Track per Ton of Rails	Number of Joints per Ton of Rails	Pounds per Yard	Gross Tons Rails per Mile of Track	Feet of Track per Ton of Rails	Number of Joints per Ton of Rails	Pounds per Yard	Gross Tons Rails per Mile of Track	Feet of Track per Ton of Rails	Number of Joints per Ton of Rails	Pounds per Yard	Gross Tons Rails per Mile of Track	Feet of Track per Ton of Rails	Number of Joints per Ton of Rails
12	18.86	280.00	19.132	47	73.86	71.49	4.864	82	128.86	40.98	2.799	117	183.86	28.72	1.958
13	20.43	258.46	17.525	48	75.43	70.00	4.783	83	130.43	40.48	2.766	118	185.43	28.47	1.945
14	22.00	240.00	16.400	49	77.00	68.57	4.680	84	132.00	40.00	2.733	119	187.00	28.24	1.929
15	23.57	224.00	15.303	50	78.57	67.20	4.592	85	133.57	39.53	2.701	120	188.57	28.00	1.913
16	25.14	210.00	14.350	51	80.14	65.88	4.501	86	135.14	39.07	2.699	121	190.14	27.77	1.897
17	26.71	197.65	13.506	52	81.71	64.62	4.415	87	136.71	38.62	2.639	122	191.71	27.54	1.881
18	28.29	186.67	12.755	53	83.29	63.40	4.332	88	138.29	38.18	2.608	123	193.29	27.32	1.866
19	29.86	176.84	12.084	54	84.86	62.22	4.251	89	139.86	37.75	2.580	124	194.86	27.10	1.851
20	31.43	168.00	11.480	55	86.43	61.09	4.174	90	141.43	37.33	2.550	125	196.43	26.88	1.836
21	33.00	160.00	10.933	56	88.00	60.00	4.100	91	143.00	36.92	2.522	126	198.00	26.67	1.821
22	34.57	152.72	10.435	57	89.57	58.95	4.027	92	144.57	36.52	2.495	127	199.57	26.46	1.808
23	36.14	146.09	9.982	58	91.14	57.93	3.958	93	146.14	36.13	2.468	128	201.14	26.25	1.793
24	37.71	140.00	9.566	59	92.71	56.95	3.891	94	147.71	35.75	2.442	129	202.71	26.05	1.779
25	39.29	134.40	9.184	60	94.29	56.00	3.826	95	149.29	35.37	2.416	130	204.29	25.85	1.765
26	40.86	129.23	8.829	61	95.86	55.08	3.763	96	150.86	35.00	2.391	131	205.86	25.65	1.752
27	42.43	124.44	8.503	62	97.43	54.19	3.702	97	152.43	34.64	2.367	132	207.43	25.45	1.739
28	44.00	120.00	8.200	63	99.00	53.33	3.644	98	154.00	34.29	2.342	133	209.00	25.26	1.726
29	45.57	115.86	7.917	64	100.57	52.50	3.587	99	155.57	33.94	2.319	134	210.57	25.07	1.713
30	47.14	112.00	7.653	65	102.14	51.69	3.532	100	157.14	33.60	2.296	135	212.14	24.89	1.700
31	48.71	108.39	7.413	66	103.71	50.91	3.478	101	158.71	33.27	2.272	136	213.71	24.71	1.688
32	50.29	105.00	7.175	67	105.29	50.15	3.426	102	160.29	32.94	2.250	137	215.29	24.53	1.676
33	51.86	101.82	6.957	68	106.86	49.41	3.376	103	161.86	32.62	2.229	138	216.86	24.35	1.663
34	53.43	98.82	6.752	69	108.43	48.70	3.327	104	163.43	32.31	2.207	139	218.43	24.17	1.651
35	55.00	96.00	6.560	70	110.00	48.00	3.280	105	165.00	32.00	2.186	140	220.00	24.00	1.640
36	56.57	93.33	6.377	71	111.57	47.32	3.233	106	166.57	31.70	2.163	141	221.57	23.83	1.628
37	58.14	90.81	6.205	72	113.14	46.67	3.189	107	168.14	31.40	2.145	142	223.14	23.66	1.616
38	59.71	88.42	6.042	73	114.71	46.03	3.144	108	169.71	31.11	2.125	143	224.71	23.49	1.605
39	61.29	86.15	5.887	74	116.29	45.41	3.094	109	171.29	30.83	2.106	144	226.29	23.33	1.594
40	62.86	84.00	5.740	75	117.86	44.80	3.061	110	172.86	30.54	2.086	145	227.86	23.18	1.583
41	64.43	81.95	5.599	76	119.43	44.21	3.021	111	174.43	30.27	2.068	146	229.43	23.01	1.572
42	66.00	80.00	5.466	77	121.00	43.64	2.982	112	176.00	30.00	2.051	147	231.00	22.86	1.562
43	67.57	78.14	5.338	78	122.57	43.08	2.942	113	177.57	29.73	2.031	148	232.57	22.70	1.551
44	69.14	76.36	5.216	79	124.14	42.53	2.906	114	179.14	29.47	2.020	149	234.14	22.55	1.540
45	70.71	74.67	5.102	80	125.71	42.00	2.870	115	180.71	29.22	1.996	150	235.71	22.39	1.531
46	72.28	73.04	4.990	81	127.29	41.48	2.834	116	182.29	28.97	1.979	...	.....	....	....

Table Giving Details of Girder, Girder Guard and High Tee Rails and Fastenings

Rail		Splice Plate, Weight per Foot, Pounds		Number of Plate Section	Bolts		Weight of One Bolt and Nut Pounds	Rail		Splice Plate, Weight per Foot, Pounds		Number of Plate Section	Bolts		Weight of One Bolt and Nut Pounds
Weight per Yard Pounds	Number of Rail Section	Outside Plate	Inside Plate		Size in Inches			Weight per Yard Pounds	Number of Rail Section	Outside Plate	Inside Plate		Size in Inches		
					Diameter	Length							Diameter	Length	
141	263	17.0	14.5	263	1	4	1.507	87	240	18.0	15.8	200	1	3¾	1.452
128	250	18.0	15.8	200	1	3¾	1.452	86	217	13.2	10.0	217	1	3½	1.397
110	234	13 1	11.5	234	1⅛	3½	1.909	85	201	18.0	15.8	200	1	3¾	1.452
107	228	19.2	17.1	228	1	4	1.507	85	219	18.0	15.8	200	1	3¾	1.452
107	254	21.4	19.1	254	1⅛	4	2.051	85	256	13.7	11.8	256	1	4	1 507
104	260	19.2	17.1	228	1	4	1.507	85	257	12.7	10.6	211	1	3¾	1.452
103	208	18.0	15.8	200	1	3¾	1.452	83	211	12.7	10.6	211	1	3¼	1.342
100	230	18.0	15.8	200	1	3¾	1.452	80	86	8.4	7.0	85	⅞	3	.982
98½	241	18.8	17.6	224	1	4	1.507	80	91	12.7	10.6	211	1	3¼	1.342
96	223	17.6	16.0	222	1	4	1.507	80	238	12.7	10.6	211	1	3½	1.397
95	258	13.9	12.3	258	1	3½	1.397	79	271	15.65	15.65	271	1	3½	1.397
95	222	17.6	16.0	222	1	4	1.507	75	85-A	8.4	7.0	85	⅞	3¼	1.025
94	226	17.6	16.0	222	1	4	1.507	72	94	12.7	10.6	211	1	3¼	1.342
94	224	18.8	17.6	224	1	4	1.507	70	85	8.4	7.0	85	⅞	3	.982
92	212	12.7	10.6	211	1	3¼	1.342	70	206	9.0	9.0	206	¾	3	.725
92	215	12.7	10.6	211	1	3¼	1.342	62	242	8.6	8.6	242	⅞	3	.982
90	200	18.0	15.8	200	1	3¾	1.452	60	209	8.4	8.4	209	⅞	3	.982
90	243	12.7	10.8	243	1	3½	1.397	56	253	7.5	7.5	253	⅞	3¼	1.025
90	255	12.7	10.8	243	1	3½	1.397	. .	. .	. .	. .	. .	. .	. .	. . .

Table Giving Details of Tee Rails and Fastenings

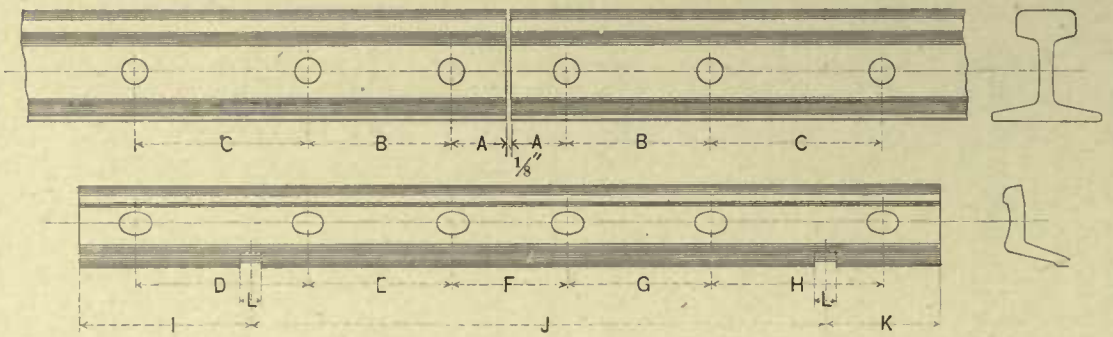
Rail		Splice Plate		Bolts		Weight of One Bolt and Nut Pounds	Rail		Splice Plate		Bolts		Weight of One Bolt and Nut Pounds
Weight per Yard Pounds	Number of Rail Section	Weight per Foot Pounds	Number of Plate Section	Size in Inches			Weight per Yard Pounds	Number of Rail Section	Weight per Foot Pounds	Number of Plate Section	Size in Inches		
				Diameter	Length						Diameter	Length	
110	268	18.6	268	1	5	1.727	75	221	10.9	220	¾	4	.853
100	96	13.4	PRR No. 8	1	5	1.727	75	221	11.3	D-80-5⅛″	¾	4	.853
100	100	15.07	100	⅞	4¼	1.197	75	214	10.4	214	¾	4	.853
100	100	14.0	100-A	⅞	4¼	1.197	75	214	11.7	214-A	¾	4¼	.885
100	247	15.0	247	1	4¾	1.672	75	214	10.4	"H"	¾	4	.853
100	247	14.2	247-A	1	4¾	1.672	75	92	11.3	92	¾	3¾	.821
95	267	16.24	267	⅞	4¾	1.283			11.5	92-A			
95	147	14.1	147	1	4½	1.617	75	87	10.5	87	¾	4	.853
		13.11	147-A				75	87	10.8	76	¾	4	.853
90	245	12.8.	245	⅞	4½	1.240	75	87	11.2	77	¾	4	.853
		14.34	245-A				74	146	9.0	146	¾	3½	.789
90	77	11.2	77	⅞	4½	1.240			8.5	146-A			
		11.6	PRR No. 6	⅞	4½	1.240	70	237	9.5	237	¾	4	.853
90	77	9 5	237	⅞	4½	1.240	70	237	10.4	237-A	¾	4	.853
90	77	10 4	237-A	⅞	4½	1.240	70	97	10.6	97	¾	3¾	.821
85	261	10.9	220	¾	4	.853	70	97	10.4	214	¾	4	.853
85	261	11.3	D-80-5⅛″	¾	4	.853	70	97	11.7	214-A	¾	4	.853
85	235	12.0	235	⅞	4¼	1.197	70	57	9.7	PRR No. 4	13/16	4½	1.063
85	67	11.6	PRR No. 6	13/16	4½	1.000	70	57	8.2	57	¾	3½	.789
80	251	11.3	251	⅞	4¼	1.197	70	57	9.2	57-A	¾	3¾	.821
80	251	12.0	251-A	⅞	4½	1.240	68	62	8.54	62	¾	3½	.789
80	251	11.9	251-B	⅞	4¼	1.197	67	2	8.6	2	¾	3½	.789
80	251	11.5	251-C	⅞	4¼	1.197	67	2	8.2	57	¾	3½	.789
80	251	10.5	251-D	⅞	4¼	1.197	67	2	9.2	57-A	¾	3¾	.821
80	251	11.9	"I"	⅞	4¼	1.197	66	145	10.07	216	¾	3¾	.821
80	220	10.9	220	¾	4	.853	66	145	8.8	236	¾	4	.853
80	220	11.3	D-80-5⅛″	¾	4	.853	65	236	8.8	236	¾	3¾	.821
79	76	10.8	76	¾	4½	.917	60	244	8.0	244	¾	3¾	.821
79	76	11.6	PRR No. 6	¾	4¼	.885	60	244	10.07	216	¾	4	.853
78	98	9.2	98	¾	3¾	.821	60	6	9.7	PRR No. 4	13/16	4½	1.063
76	216	10.07	216	¾	4	.853	60	6	8.2	57	¾	3½	.789
75	249	12.8	245	⅞	4½	1.240	60	6	9.2	57-A	¾	3¾	.821

Table Giving Details of Tee Rails and Fastenings—*Continued*

Rail		Splice Plate		Bolts		Weight of One Bolt and Nut Pounds	Rail		Splice Plate		Bolts		Weight of One Bolt and Nut Pounds
Weight per Yard Pounds	Number of Rail Section	Weight per Foot Pounds	Number of Plate Section	Size in Inches			Weight per Yard Pounds	Number of Rail Section	Weight per Foot Pounds	Number of Plate Section	Size in Inches		
				Diameter	Length						Diameter	Length	
58¼	63	6.9	63	¾	3¼	·757	40	32	5.15	36	⅝	3	·524
58	7	8.2	57	¾	3½	·789	40	32	3.2	32*	⅝	3	·524
58	7	9.2	57-A	¾	3¾	.821	35	43	4·3	44	9/16	2½	·373
56	51	8.2	57	¾	3½	·789	35	43	2.62	43*	9/16	2½	·373
56	51	9.2	57-A	¾	3¾	.821	35	265	4.0	265	9/16	2½	·373
55	130	7.2	130	¾	3½	·789	30	44	4·3	44	9/16	2½	·373
55	130	8.6	2	¾	3¼	·757	30	44	2.4	43*	9/16	2½	·373
50	129	6.2	129	¾	3¼	·757	30	269	3·5	269	9/16	2½	·373
50	22	6.3	22	¾	3¼	·757	25	45	2.1	45*	9/16	2¼	·355
48	88	6.3	22	¾	3¼	·757	25	264	2.0	264	9/16	2¼	·355
45	266	5·5	266	⅝	3	·524	20	47	1.8	47*	½	2	.253
45	36	5.15	36	⅝	3	·524	16	48	1.4	48*	½	2	.253
45	36	3.2	32*	⅝	3	·524	12	66	.95	1¼″ x ¼″ flat	½	2	.253
40	138	4·7	138	⅝	3	·524	. .	. .	. . .	. . . . .	. .	. .	. . .

* Plain plates.

The Pennsylvania Steel Company and Maryland Steel Company's Standard Drillings for Tee Rails

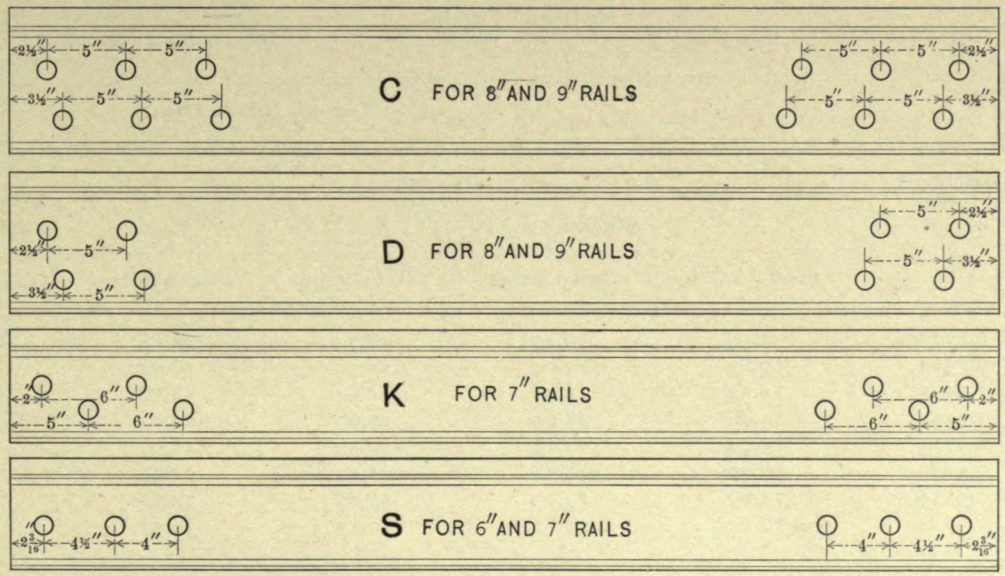


Bolt holes in rails are ¼ of an inch larger than diameter of bolt. See table, page 12, for size of bolts
For distance from base of rail to center of bolt holes, see drawing of rail

Weight of Rails Pounds	Rail Drilling, Inches			Splice Plate		Splice Plate—Punching, Inches					Splice Plate—Notching, Inches			Size of Notch, Ins.
	A	B	C	Length Inches	No. of Bolts	D	E	F	G	H	I	J	K	L
12 to 45	2	4	. .	16	4	. .	4	4⅛	4	. .	‡	‡	‡	⅝
50 and over	3 1/16	5	. .	24	4	. .	5	8	5	. .	1½	17	5½	¾
50 and over	1 1/16	5	6	30	6	6	5	4	5	6	6	20	4	¾

‡ Note.— One notch in center of angle plates.

The Pennsylvania Steel Company's Standard Drillings for Girder, Girder Guard and High Tee Rails



Bolt holes in rails are ¼ of an inch larger than diameter of bolt. See table, page 11, for size of bolt
For distance from base of rail to center of bolt holes, see drawing of rail

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Spike Table

Size of Spikes Inches	Average No. in 200-pound Keg	Weight per Spike	Kegs per Mile of Track					
			Tie Spacing					
			4 Spikes per Tie			6 Spikes per Tie		
			2 feet 6 inches	2 feet 3 inches	2 feet 0 inches	2 feet 6 inches	2 feet 3 inches	2 feet 0 inches
$3\frac{1}{2} \times 1\frac{7}{16}$	900	0.2222	9.39	10.43	11.73	14.08	15.65	17.60
$4 \times 1\frac{7}{16}$	780	0.2564	10.83	12.04	13.54	16.24	18.06	20.31
$4\frac{1}{2} \times 1\frac{7}{16}$	675	0.2963	12.52	13.91	15.64	18.78	20.86	23.46
$4 \times \frac{1}{2}$	600	0.3333	14.08	15.65	17.60	21.12	23.47	26.40
$4\frac{1}{2} \times \frac{1}{2}$	530	0.3773	15.94	17.71	19.92	23.91	26.56	29.88
$5 \times \frac{1}{2}$	500	0.4000	16.89	18.78	21.12	25.33	28.17	31.68
$5 \times 1\frac{9}{16}$	390	0.5128	21.66	24.07	27.08	32.50	36.10	40.61
$5\frac{1}{2} \times 1\frac{9}{16}$	350	0.5714	24.14	26.82	30.17	36.21	40.23	45.25

Rail Sections Recommended by the American Society of Civil Engineers

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Rail Section No. 268

A. S. C. E. Standard

110 pounds per yard 172.86 gross tons per mile
54.6 kg. per meter 109.13 tonnes per kilometer

Angle Splice-plate Section No. 268

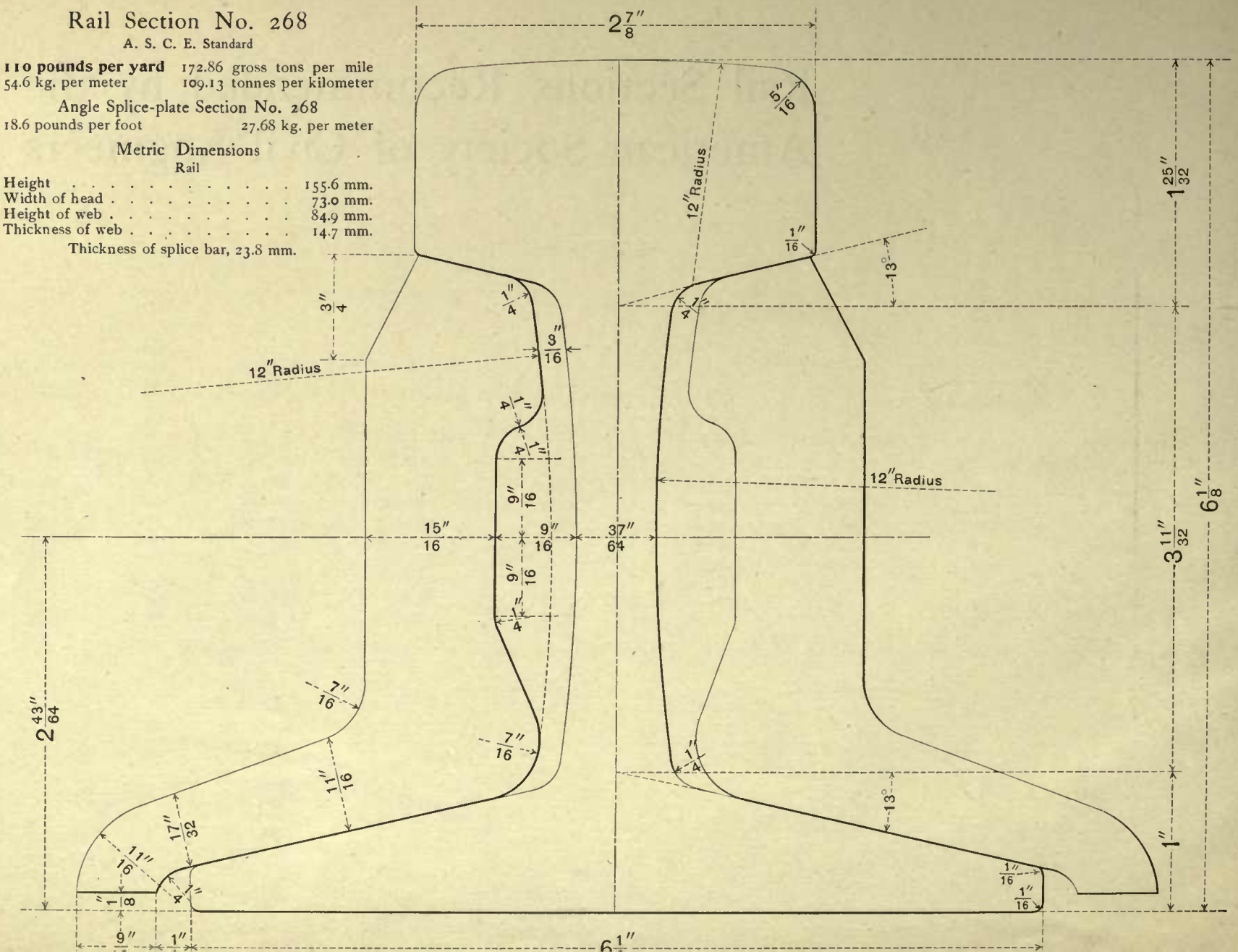
18.6 pounds per foot 27.68 kg. per meter

Metric Dimensions

Rail

Height	155.6 mm.
Width of head	73.0 mm.
Height of web	84.9 mm.
Thickness of web	14.7 mm.

Thickness of splice bar, 23.8 mm.



Rail Section No. 247

A. S. C. E. Standard

100 pounds per yard 157.14 gross tons per mile
49.6 kg. per meter 99.21 tonnes per kilometer

Angle Splice-plate Section No. 247

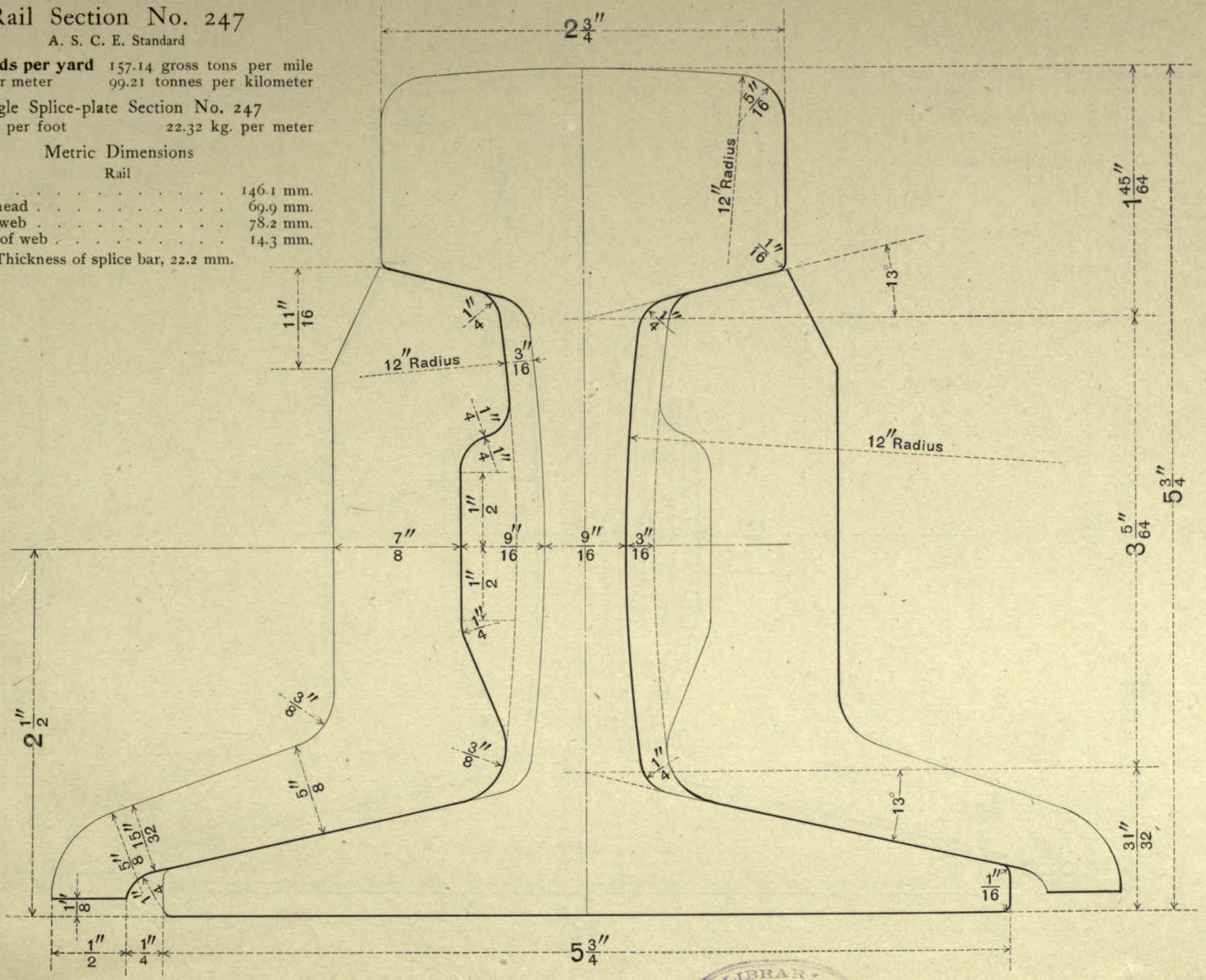
15 pounds per foot 22.32 kg. per meter

Metric Dimensions

Rail

Height	146.1 mm.
Width of head	69.9 mm.
Height of web	78.2 mm.
Thickness of web	14.3 mm.

Thickness of splice bar, 22.2 mm.



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Rail Section No. 267

A. S. C. E. Standard

95 pounds per yard 149.29 gross tons per mile
47.1 kg. per meter 94.25 tonnes per kilometer

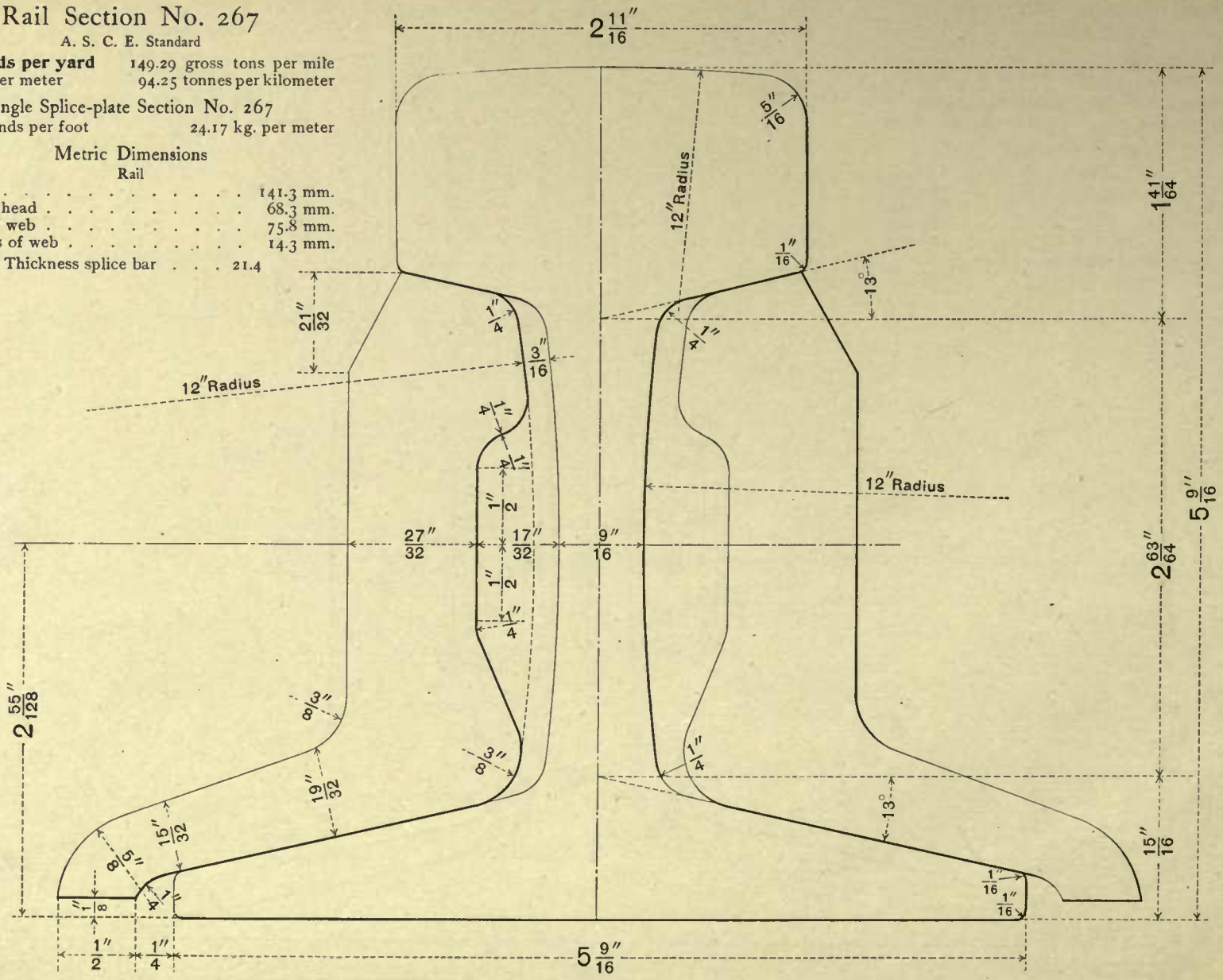
Angle Splice-plate Section No. 267

16.24 pounds per foot 24.17 kg. per meter

Metric Dimensions

Rail

Height	141.3 mm.
Width of head	68.3 mm.
Height of web	75.8 mm.
Thickness of web	14.3 mm.
Thickness splice bar	21.4



Rail Section No. 245

A. S. C. E. Standard

90 pounds per yard 141.43 gross tons per mile
44.6 kg. per meter 89.29 tonnes per kilometer

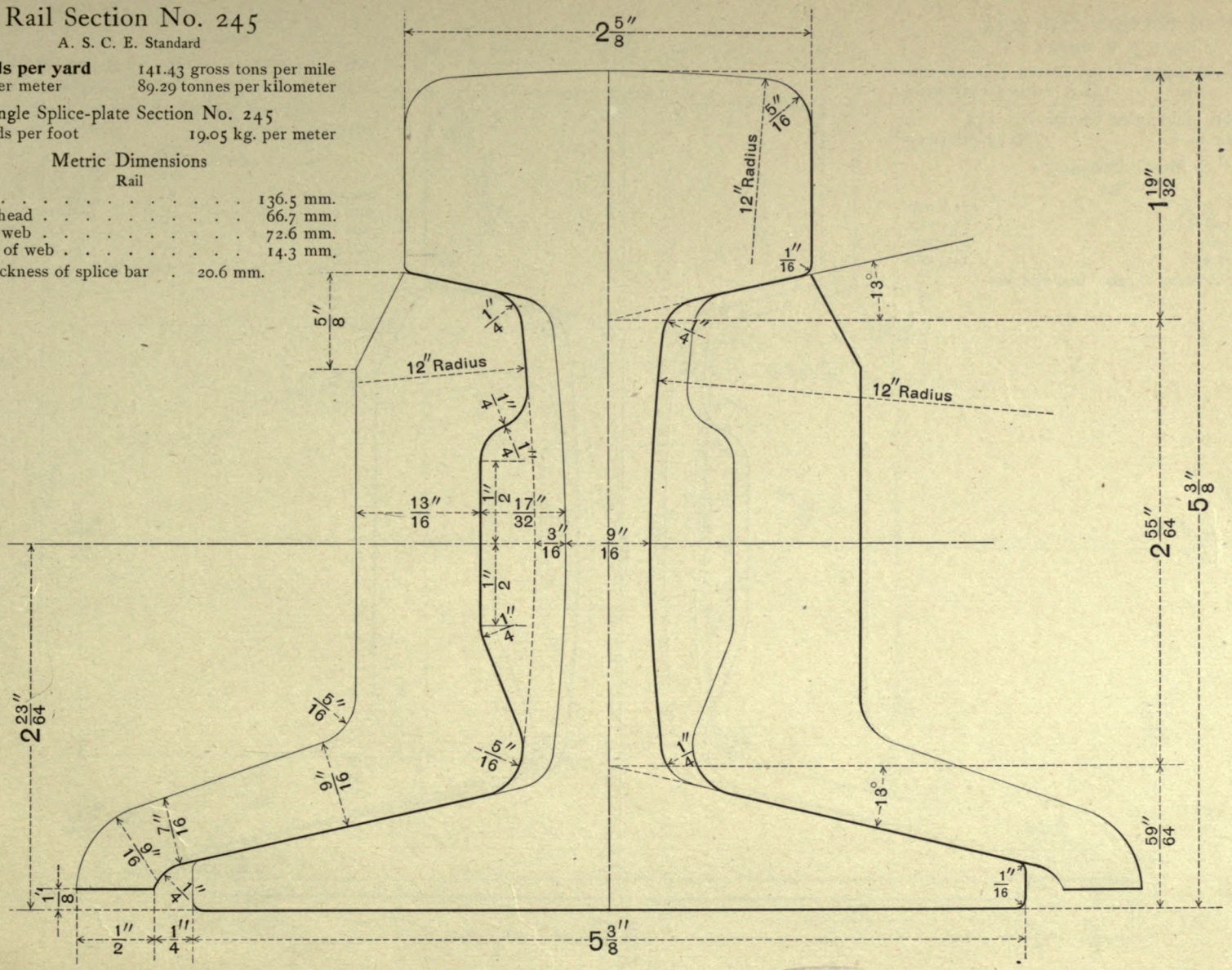
Angle Splice-plate Section No. 245

12.8 pounds per foot 19.05 kg. per meter

Metric Dimensions

Rail

Height	136.5 mm.
Width of head	66.7 mm.
Height of web	72.6 mm.
Thickness of web	14.3 mm.
Thickness of splice bar	20.6 mm.



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Rail Section No. 235

A. S. C. E. Standard

85 pounds per yard 133.57 gross tons per mile
42.2 kg. per meter 84.33 tonnes per kilometer

Angle Splice-plate Section No. 235

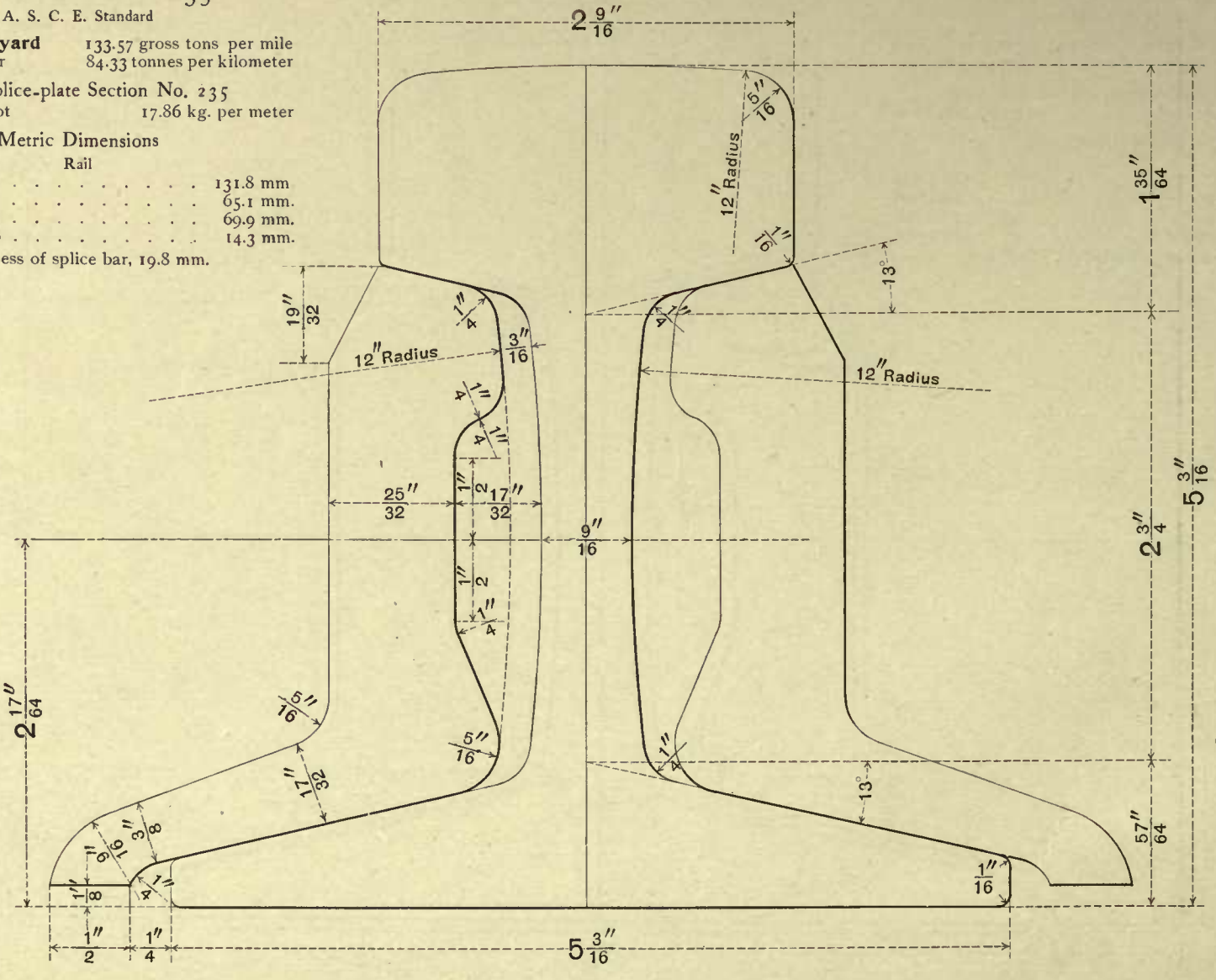
12 pounds per foot 17.86 kg. per meter

Metric Dimensions

Rail

Height	131.8 mm
Width of head	65.1 mm.
Height of web	69.9 mm.
Thickness of web	14.3 mm.

Thickness of splice bar, 19.8 mm.



Rail Section No. 251

A. S. C. E. Standard

80 pounds per yard 125.71 gross tons per mile
39.7 kg. per meter 79.37 tonnes per kilometer

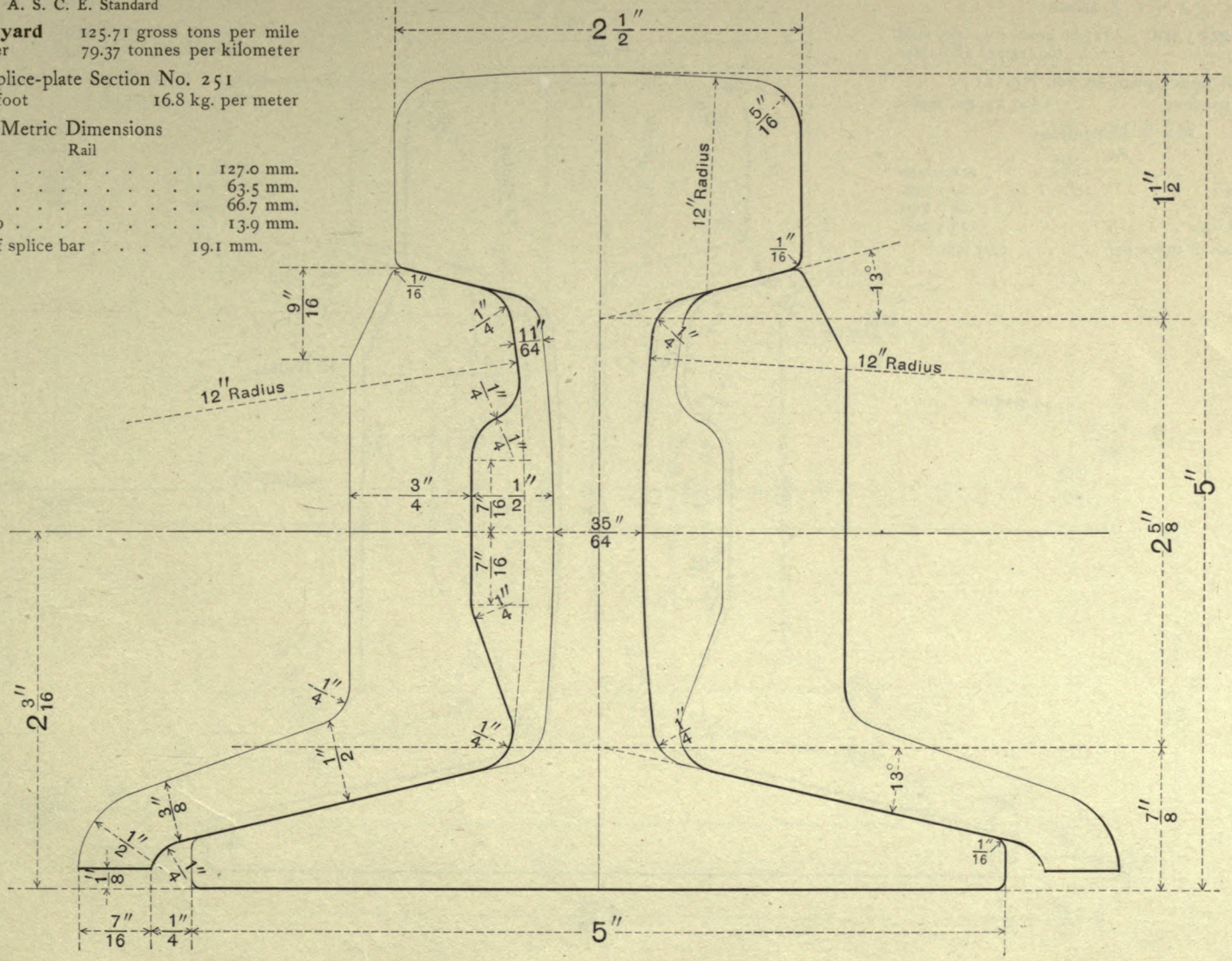
Angle Splice-plate Section No. 251

11.3 pounds per foot 16.8 kg. per meter

Metric Dimensions

Rail

Height	127.0 mm.
Width of head	63.5 mm.
Height of web	66.7 mm.
Thickness of web	13.9 mm.
Thickness of splice bar	19.1 mm.



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Rail Section No. 214

A. S. C. E. Standard

75 pounds per yard 117.86 gross tons per mile
37.2 kg. per meter 74.41 tonnes per kilometer

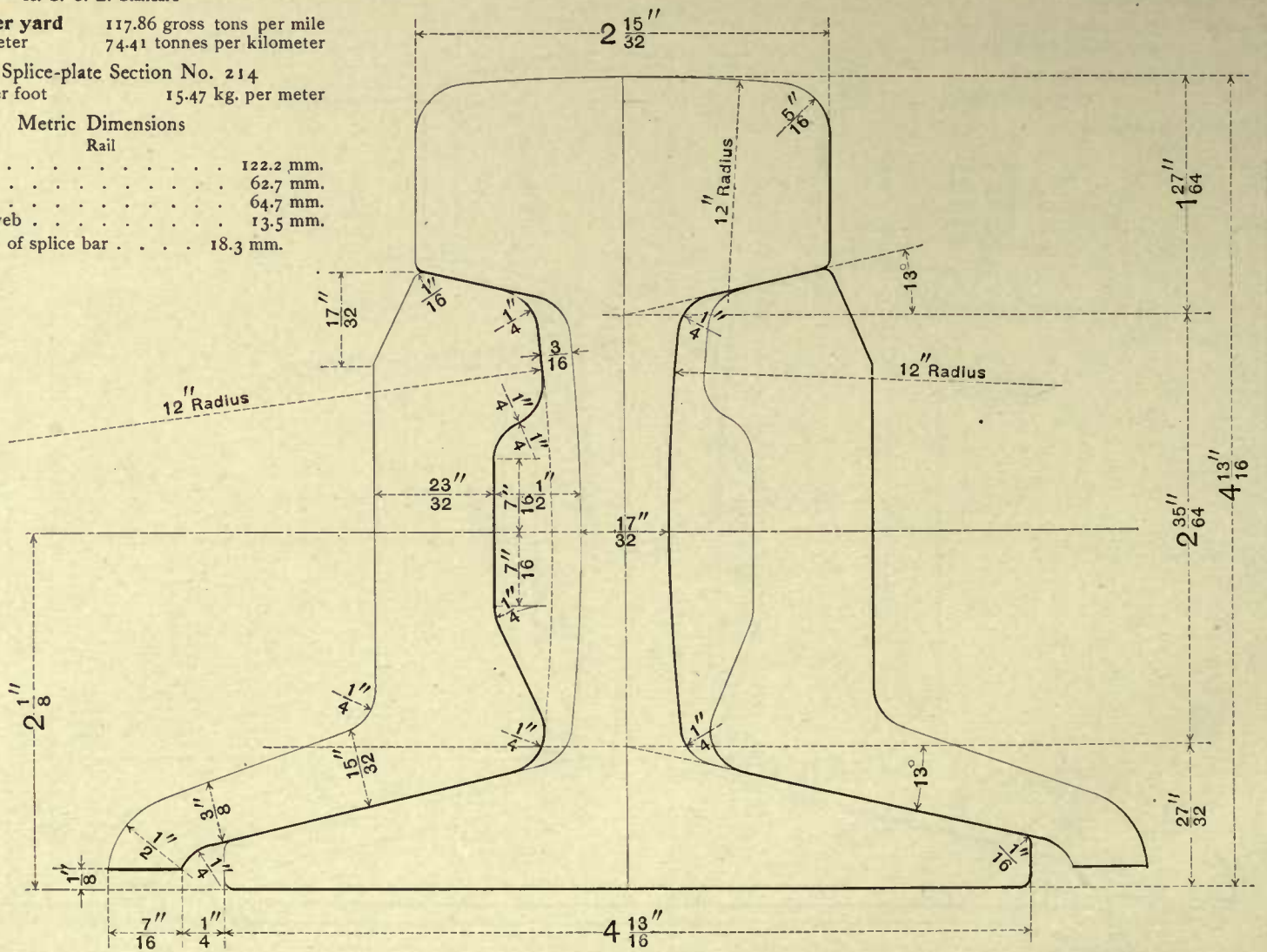
Angle Splice-plate Section No. 214

10.4 pounds per foot 15.47 kg. per meter

Metric Dimensions

Rail

Height	122.2 mm.
Width of head	62.7 mm.
Height of web	64.7 mm.
Thickness of web	13.5 mm.
Thickness of splice bar	18.3 mm.



Rail Section No. 237

A. S. C. E. Standard

70 pounds per yard 110.0 gross tons per mile
34.7 kg. per meter 69.45 tonnes per kilometer

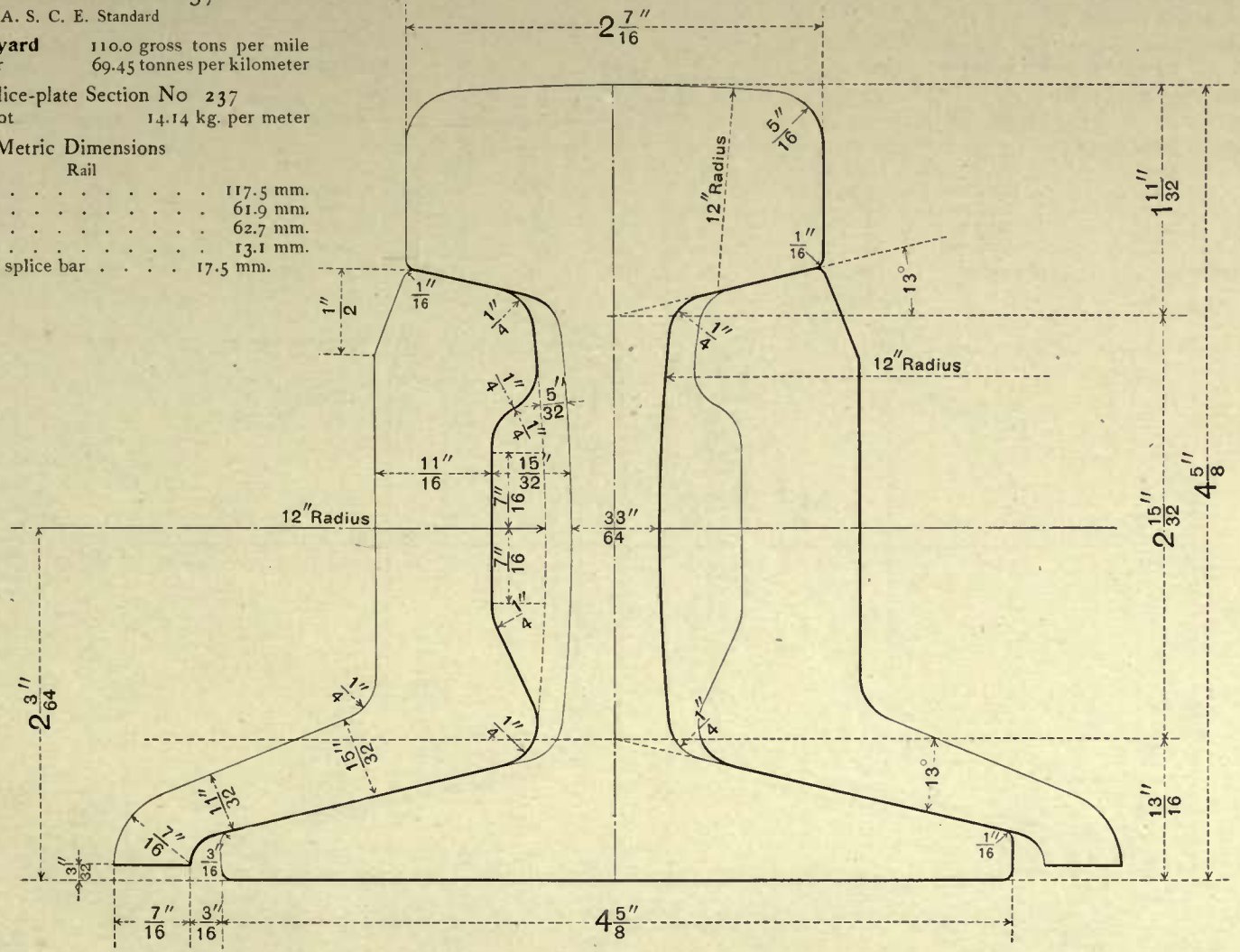
Angle Splice-plate Section No 237

9.5 pounds per foot 14.14 kg. per meter

Metric Dimensions

Rail

Height	117.5 mm.
Width of head	61.9 mm.
Height of web	62.7 mm.
Thickness of web	13.1 mm.
Thickness of splice bar	17.5 mm.



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Rail Section No. 236

A. S. C. E. Standard

65 pounds per yard 102.14 gross tons per mile
32.2 kg. per meter 64.49 tonnes per kilometer

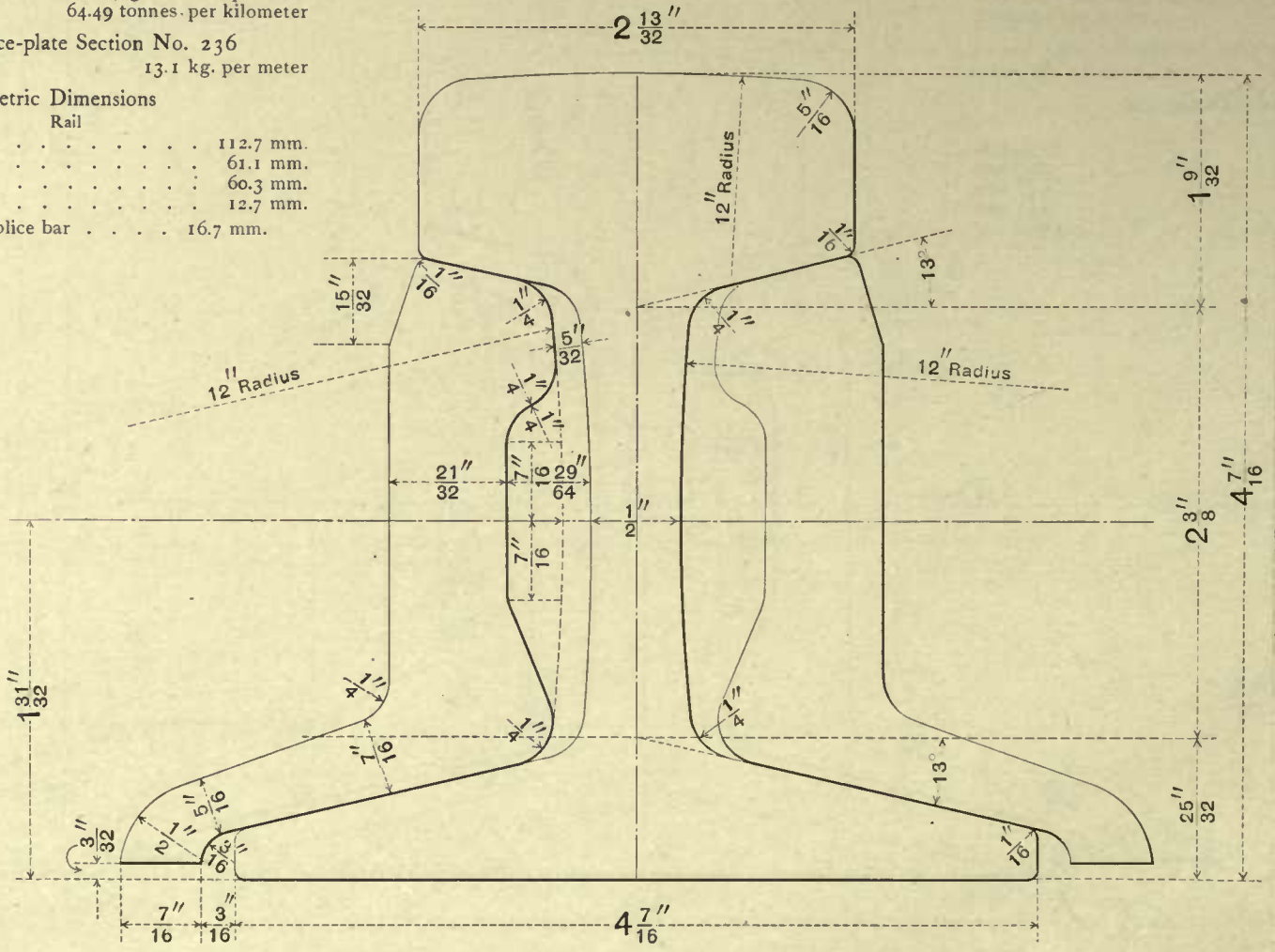
Angle Splice-plate Section No. 236

8.8 pounds per foot 13.1 kg. per meter

Metric Dimensions

Rail

Height	112.7 mm.
Width of head	61.1 mm.
Height of web	60.3 mm.
Thickness of web	12.7 mm.
Thickness of splice bar	16.7 mm.



Rail Section No. 244

A. S. C. E. Standard

60 pounds per yard 94.29 gross tons per mile
29.8 kg. per meter 59.53 tonnes per kilometer

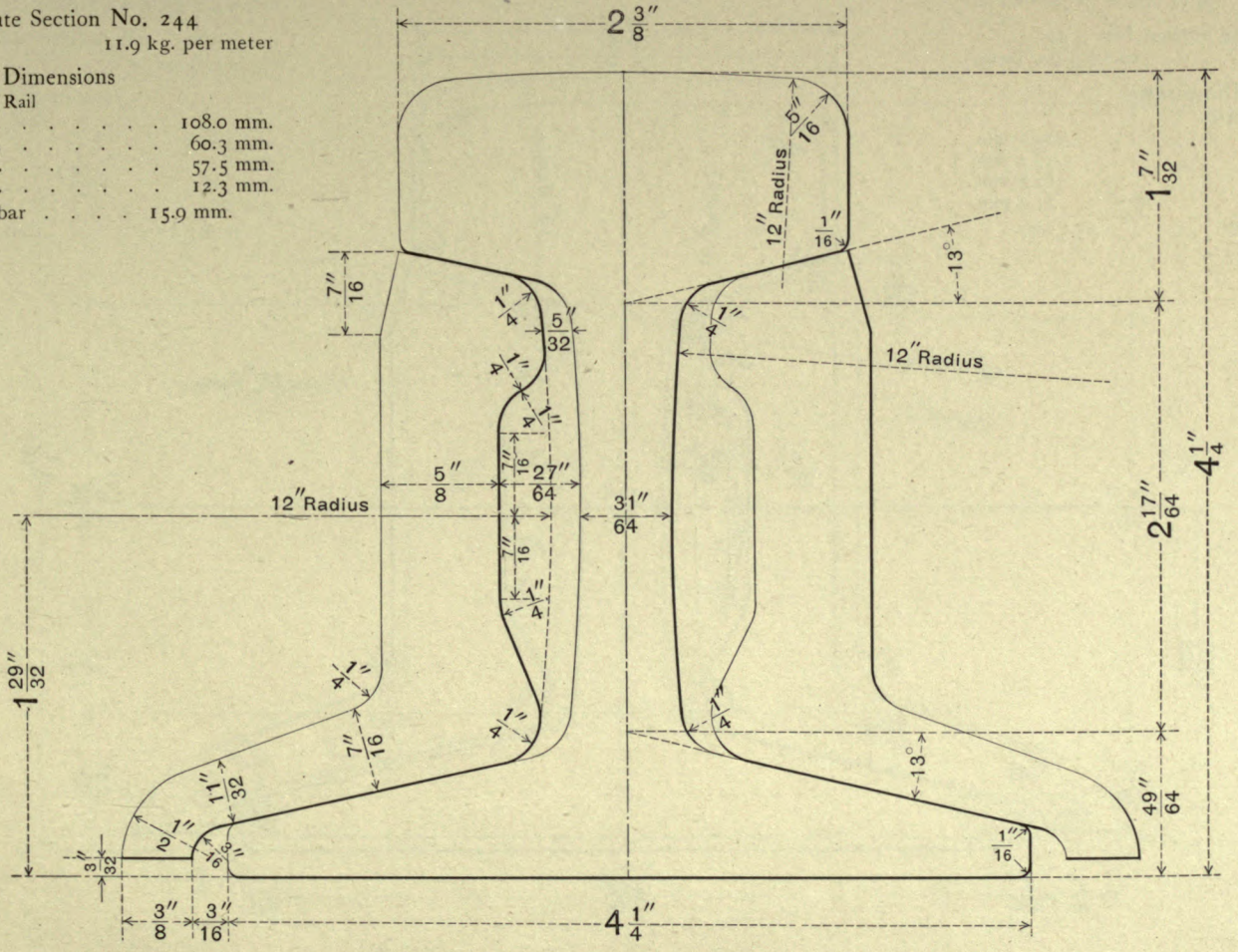
Angle Splice-plate Section No. 244

8 pounds per foot 11.9 kg. per meter

Metric Dimensions

Rail

Height	108.0 mm.
Width of head	60.3 mm.
Height of web	57.5 mm.
Thickness of web	12.3 mm.
Thickness of splice bar	15.9 mm.



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Rail Section No. 130

A. S. C. E. Standard

55 pounds per yard 86.43 gross tons per mile
27.3 kg. per meter 54.57 tonnes per kilometer

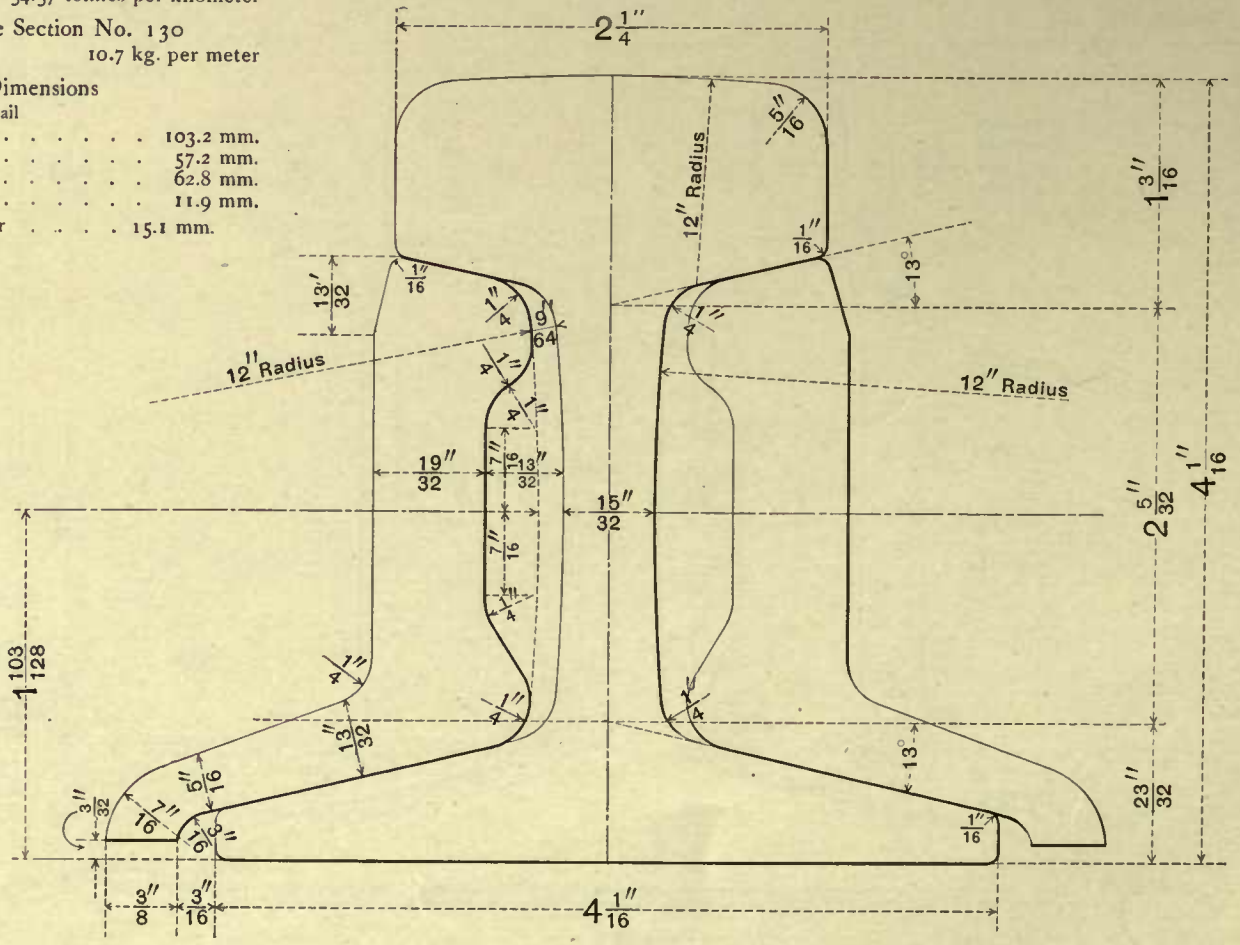
Angle Splice-plate Section No. 130

7.2 pounds per foot 10.7 kg. per meter

Metric Dimensions

Rail

Height	103.2 mm.
Width of head	57.2 mm.
Height of web	62.8 mm.
Thickness of web	11.9 mm.
Thickness of splice bar	15.1 mm.



Rail Section No. 129

A. S. C. E. Standard

50 pounds per yard 78.57 gross tons per mile
24.8 kg. per meter 49.61 tonnes per kilometer

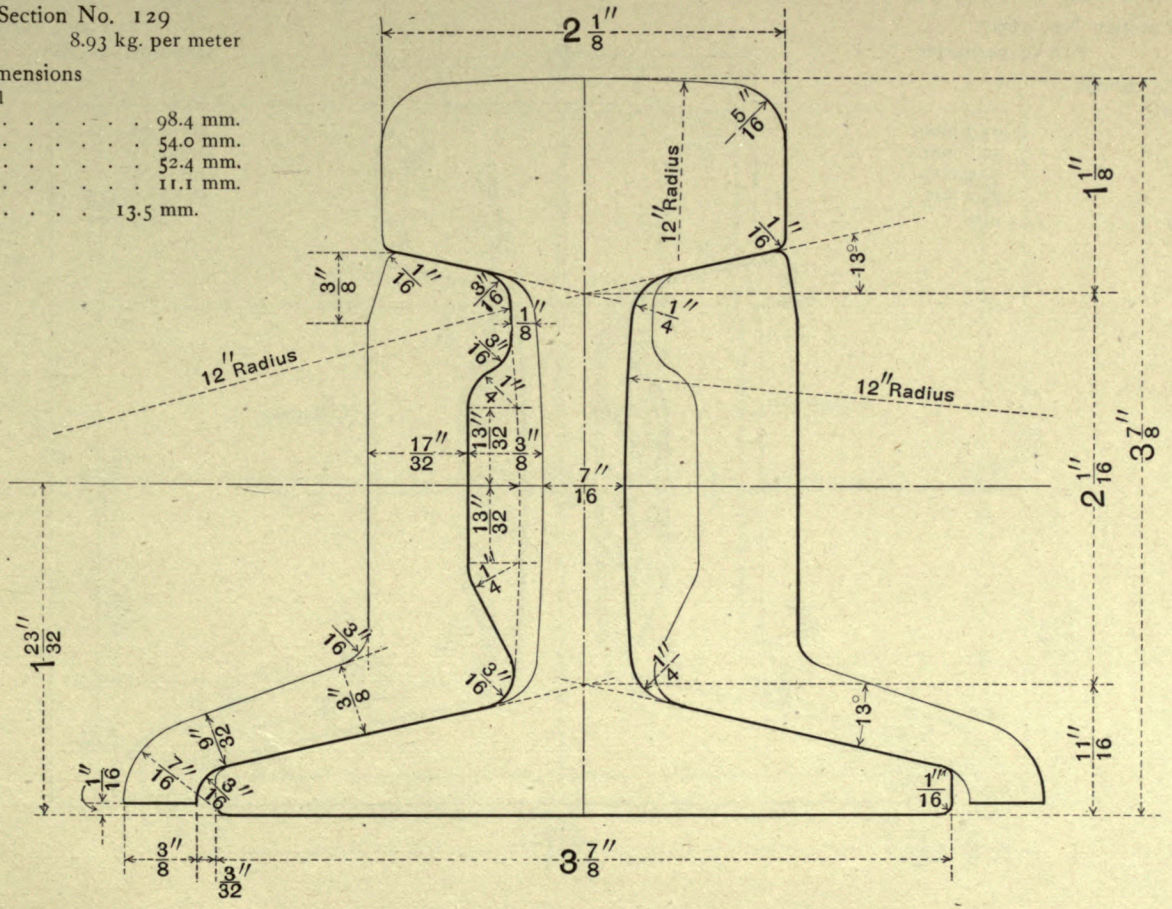
Angle Splice-plate Section No. 129

6 pounds per foot 8.93 kg. per meter

Metric Dimensions

Rail

Height	98.4 mm.
Width of head	54.0 mm.
Height of web	52.4 mm.
Thickness of web	11.1 mm.
Thickness of splice bar	13.5 mm.



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Rail Section No. 266

A. S. C. E. Standard

45 pounds per yard 70.71 gross tons per mile
22.3 kg. per meter 44.64 tonnes per kilometer

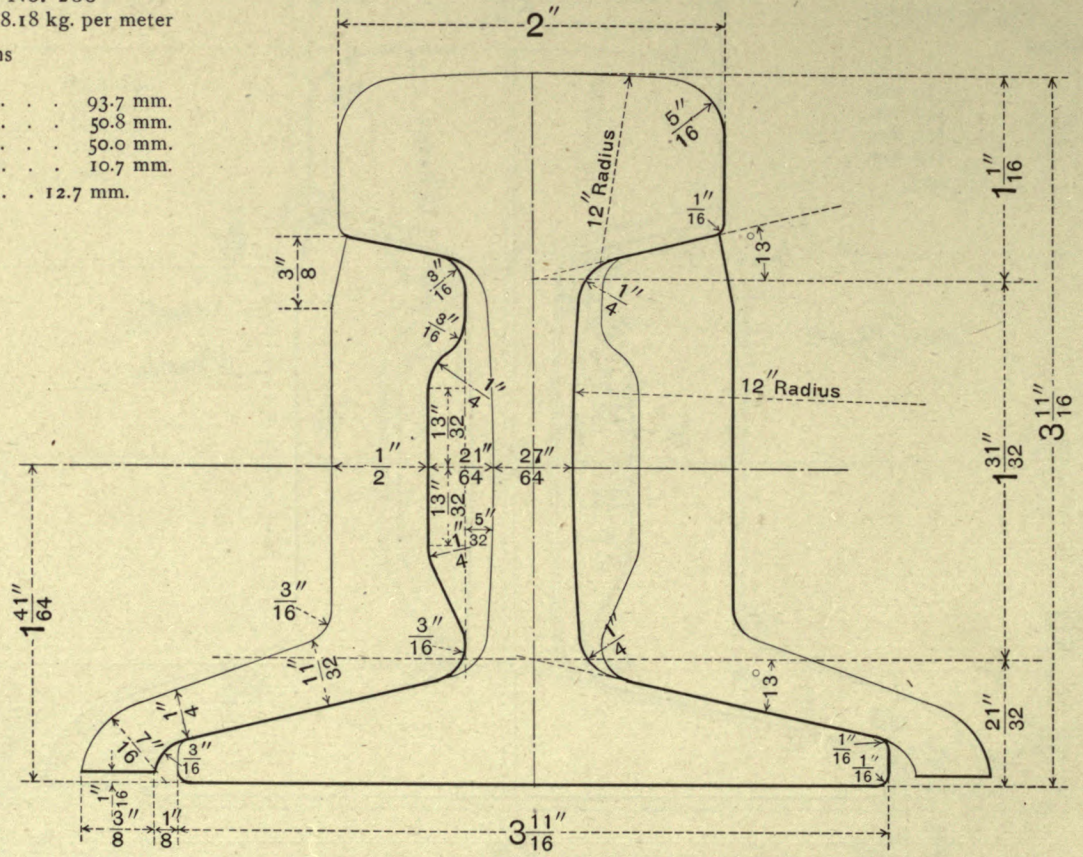
Angle Splice-plate Section No. 266

5.5 pounds per foot 8.18 kg. per meter

Metric Dimensions

Rail

Height	93.7 mm.
Width of head	50.8 mm.
Height of web	50.0 mm.
Thickness of web	10.7 mm.
Thickness of splice bar	12.7 mm.



Rail Section No. 138

A. S. C. E. Standard

40 pounds per yard 62.86 gross tons per mile
19.8 kg. per meter 39.68 tonnes per kilometer

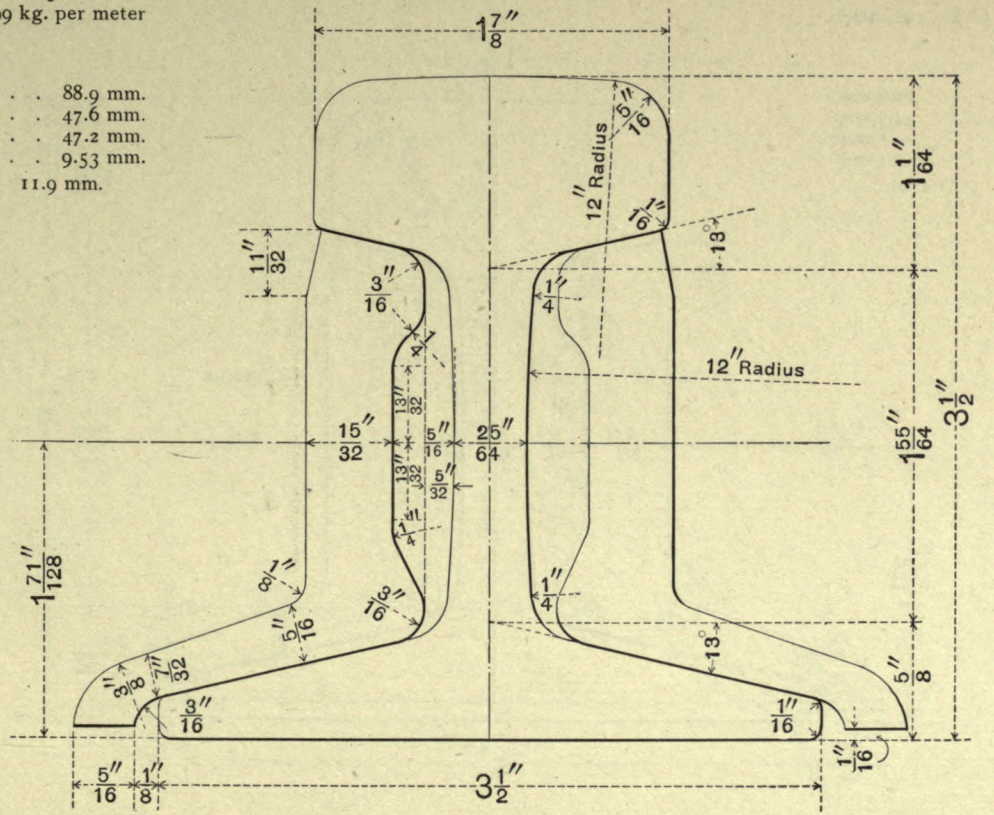
Angle Splice-plate Section No. 138

4.7 pounds per foot 6.99 kg. per meter

Metric Dimensions

Rail

Height	88.9 mm.
Width of head	47.6 mm.
Height of web	47.2 mm.
Thickness of web	9.53 mm.
Thickness of splice bar	11.9 mm.



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Rail Section No. 265

A. S. C. E. Standard

35 pounds per yard 55.00 gross tons per mile
17.4 kg. per meter 34.72 tonnes per kilometer

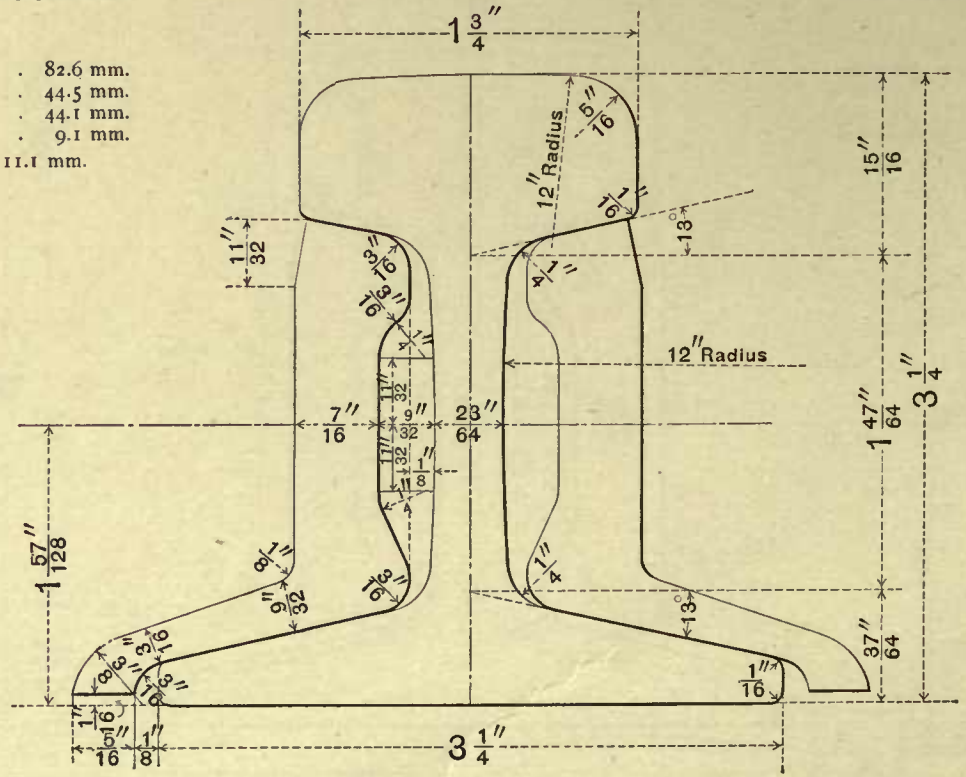
Angle Splice-plate Section No. 265

3.9 pounds per foot 5.8 kg. per meter

Metric Dimensions

Rail

Height	82.6 mm.
Width of head	44.5 mm.
Height of web	44.1 mm.
Thickness of web	9.1 mm.
Thickness of splice bar	11.1 mm.



Rail Section No. 269

A. S. C. E. Standard

30 pounds per yard 47.14 gross tons per mile
14.9 kg. per meter 29.76 tonnes per kilometer

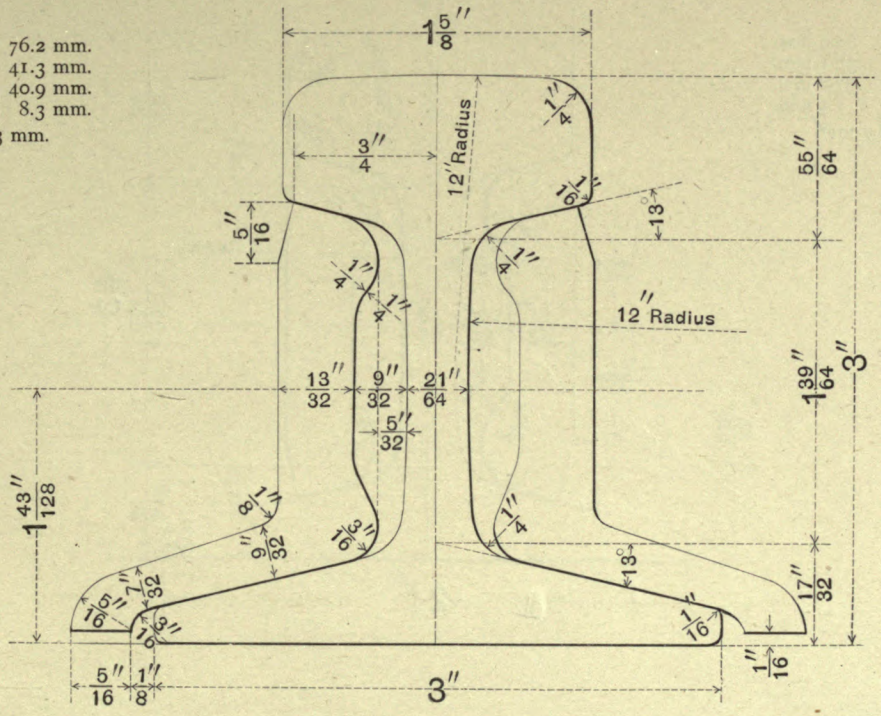
Angle Plate Section No. 269

3.5 pounds per foot 5.2 kg. per meter

Metric Dimensions

Rail

Height	76.2 mm.
Width of head	41.3 mm.
Height of web	40.9 mm.
Thickness of web	8.3 mm.
Thickness of splice bar	10.3 mm.



Rail Section No. 264

A. S. C. E. Standard

25 pounds per yard 39.29 gross tons per mile
12.4 kg. per meter 24.80 tonnes per kilometer

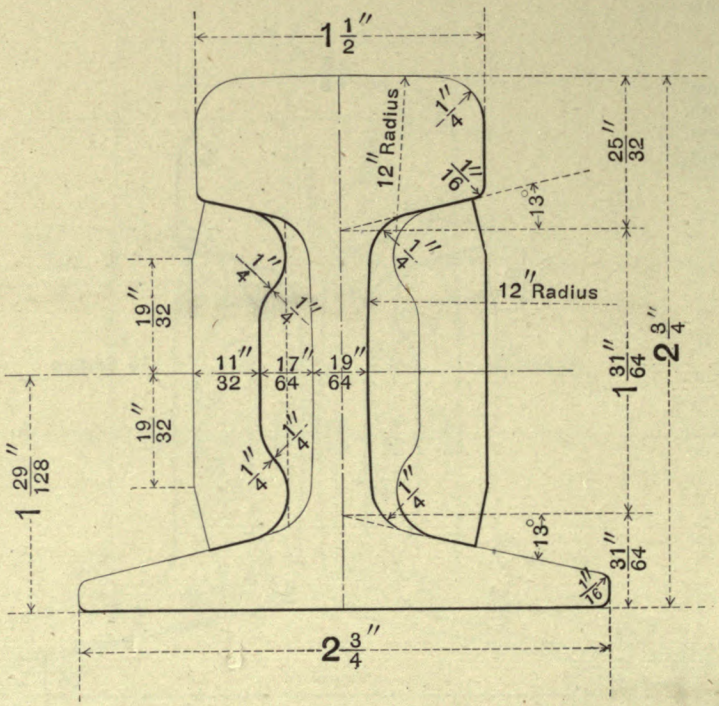
Plain Splice-plate Section No. 264

2.0 pounds per foot 2.97 kg. per meter

Metric Dimensions

Rail

Height	69.9 mm.
Width of head	38.1 mm.
Height of web	37.7 mm.
Thickness of web	7.5 mm.
Thickness of splice bar	8.7 mm.



Miscellaneous Tee Rail Sections

Rail Section No. 100

100 pounds per yard 157.14 gross tons per mile
49.6 kg. per meter 99.2 tonnes per kilometer

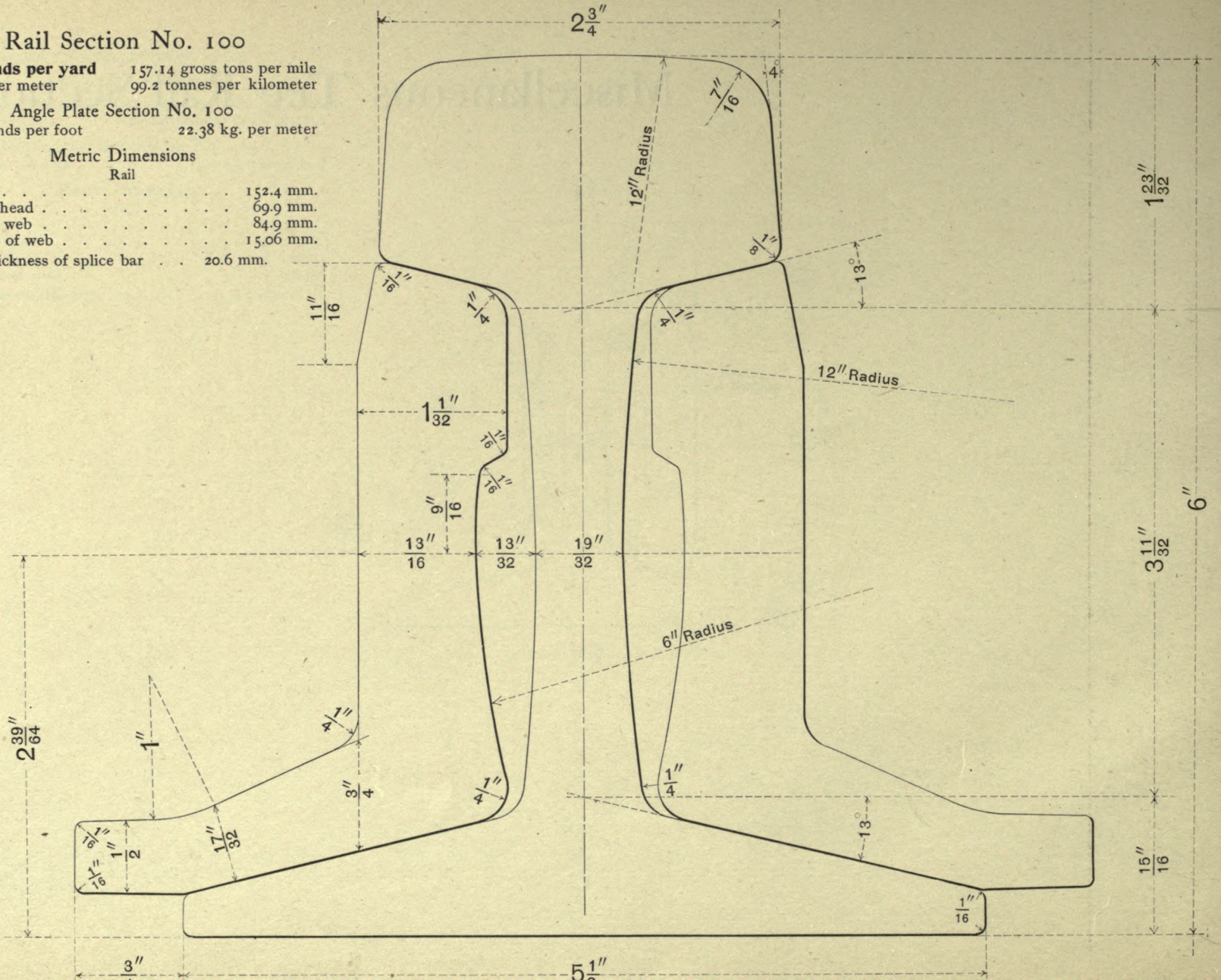
Angle Plate Section No. 100

15.07 pounds per foot 22.38 kg. per meter

Metric Dimensions

Rail

Height	152.4 mm.
Width of head	69.9 mm.
Height of web	84.9 mm.
Thickness of web	15.06 mm.
Thickness of splice bar	20.6 mm.



Rail Section No. 96

Pennsylvania R. R. Standard

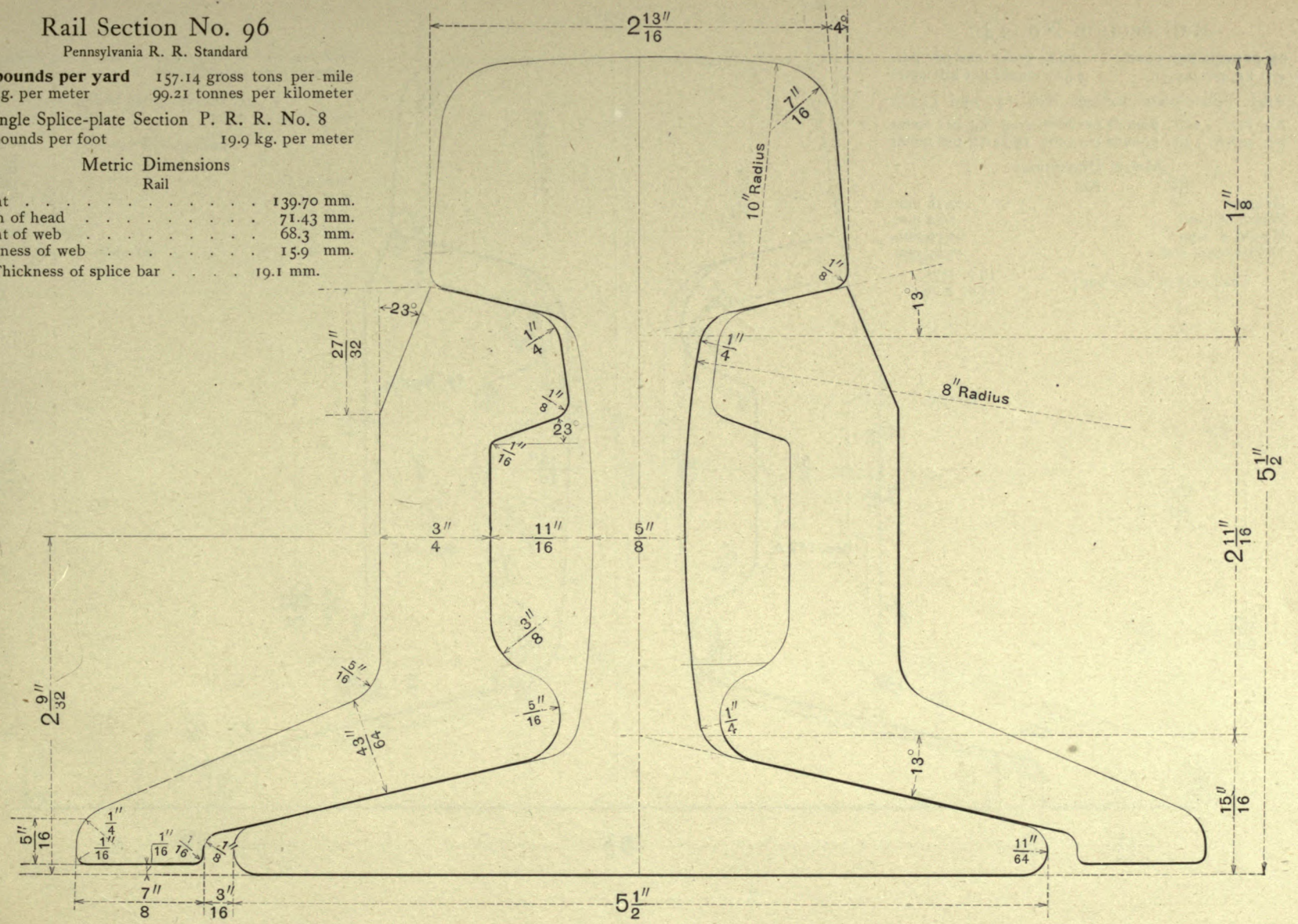
100 pounds per yard 157.14 gross tons per mile
49.6 kg. per meter 99.21 tonnes per kilometer

Angle Splice-plate Section P. R. R. No. 8
13.4 pounds per foot 19.9 kg. per meter

Metric Dimensions

Rail

Height	139.70 mm.
Width of head	71.43 mm.
Height of web	68.3 mm.
Thickness of web	15.9 mm.
Thickness of splice bar	19.1 mm.



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Rail Section No. 147

95 pounds per yard 149.29 gross tons per mile
47.1 kg. per meter 94.25 tonnes per kilometer

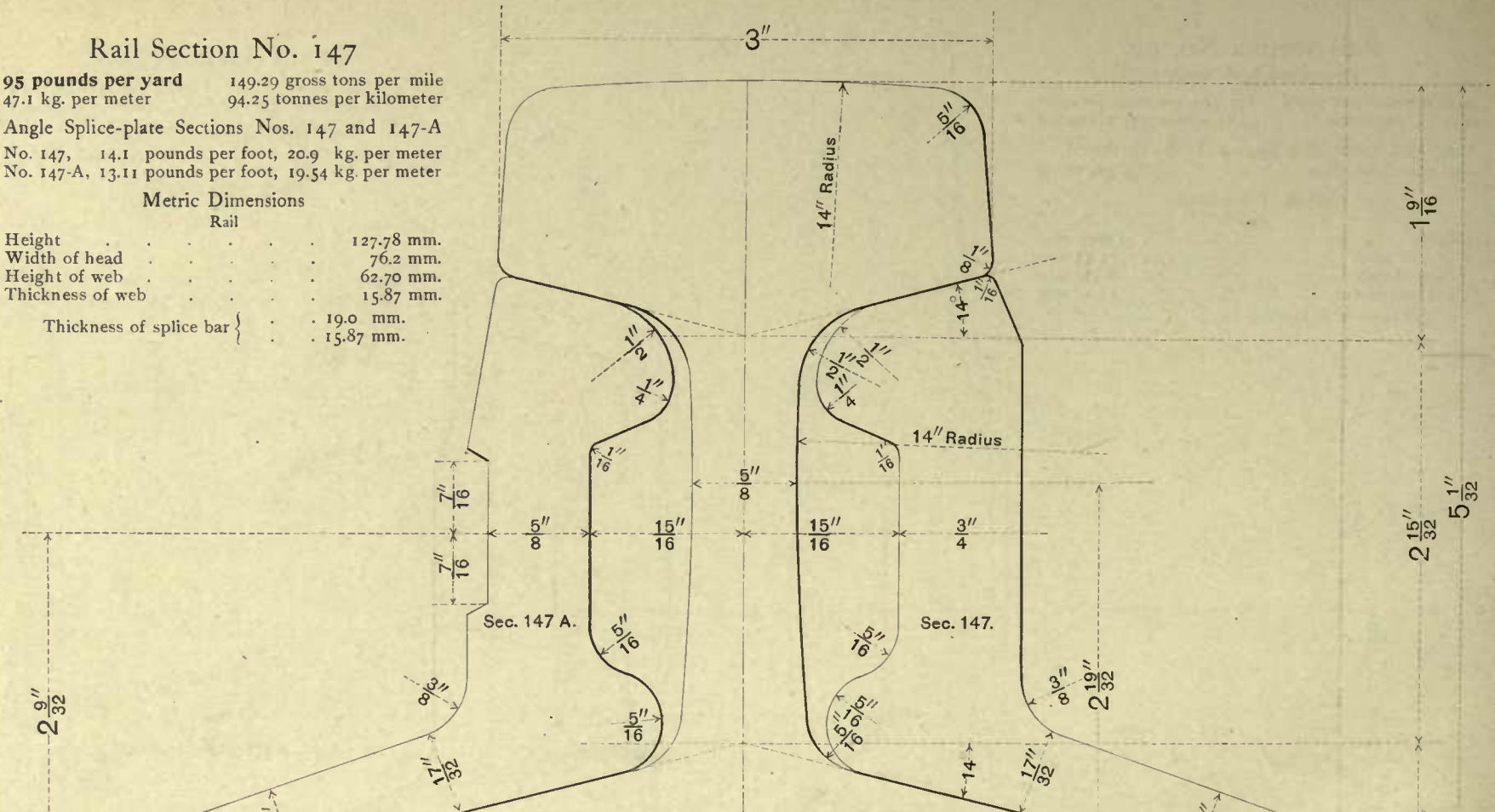
Angle Splice-plate Sections Nos. 147 and 147-A

No. 147, 14.1 pounds per foot, 20.9 kg. per meter
No. 147-A, 13.11 pounds per foot, 19.54 kg. per meter

Metric Dimensions

Rail

Height	127.78 mm.
Width of head	76.2 mm.
Height of web	62.70 mm.
Thickness of web	15.87 mm.
Thickness of splice bar	19.0 mm.
	15.87 mm.



Rail Section No. 77

90 pounds per yard 141.43 gross tons per mile
44.6 kg. per meter 89.29 tonnes per kilometer

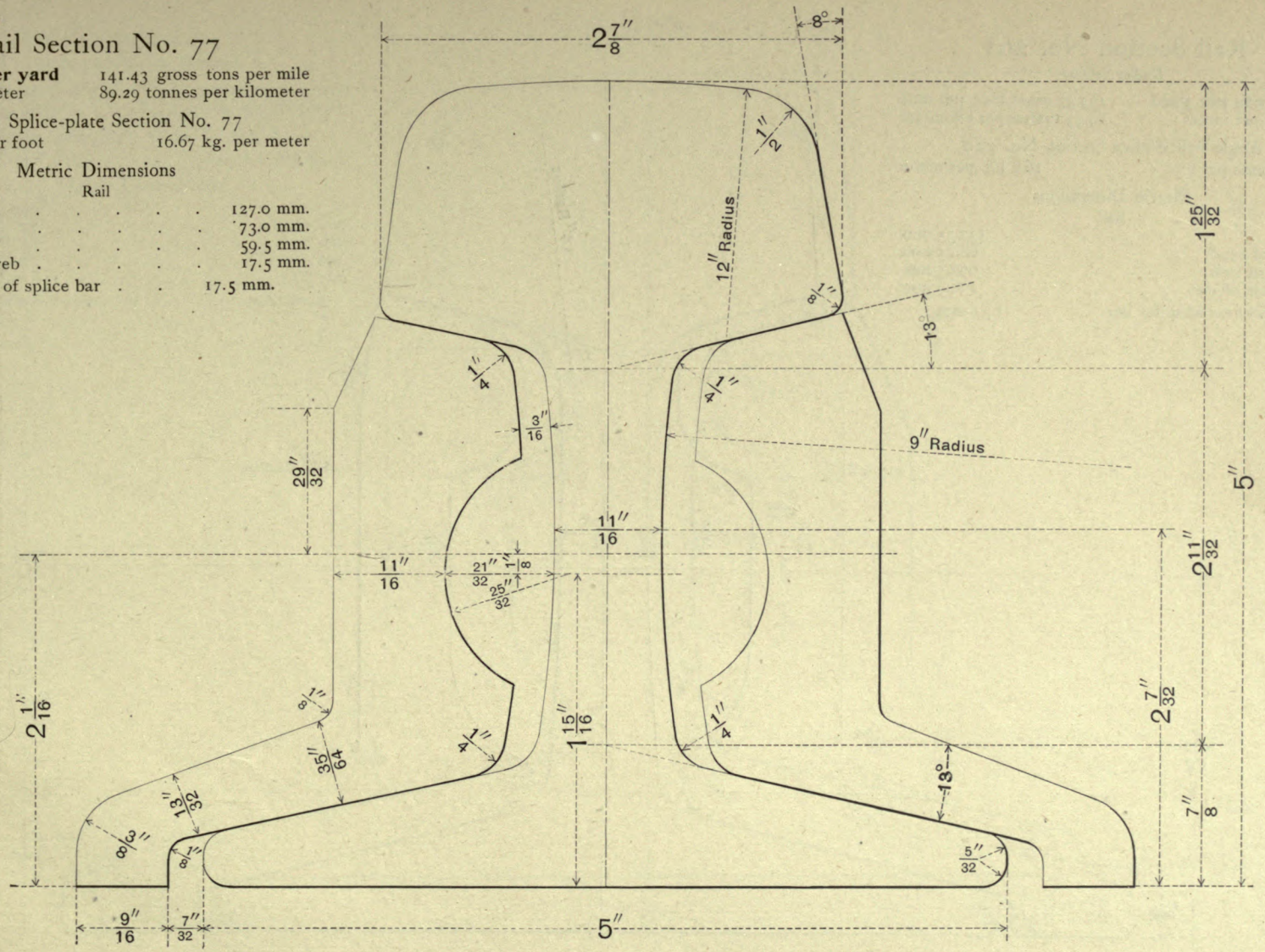
Angle Splice-plate Section No. 77

11.2 pounds per foot 16.67 kg. per meter

Metric Dimensions

Rail

Height	127.0 mm.
Width of head	73.0 mm.
Height of web	59.5 mm.
Thickness of web	17.5 mm.
Thickness of splice bar	17.5 mm.



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Rail Section No. 261

Dudley Section

85 pounds per yard 133.57 gross tons per mile
42.2 kg. per meter 84.33 tonnes per kilometer

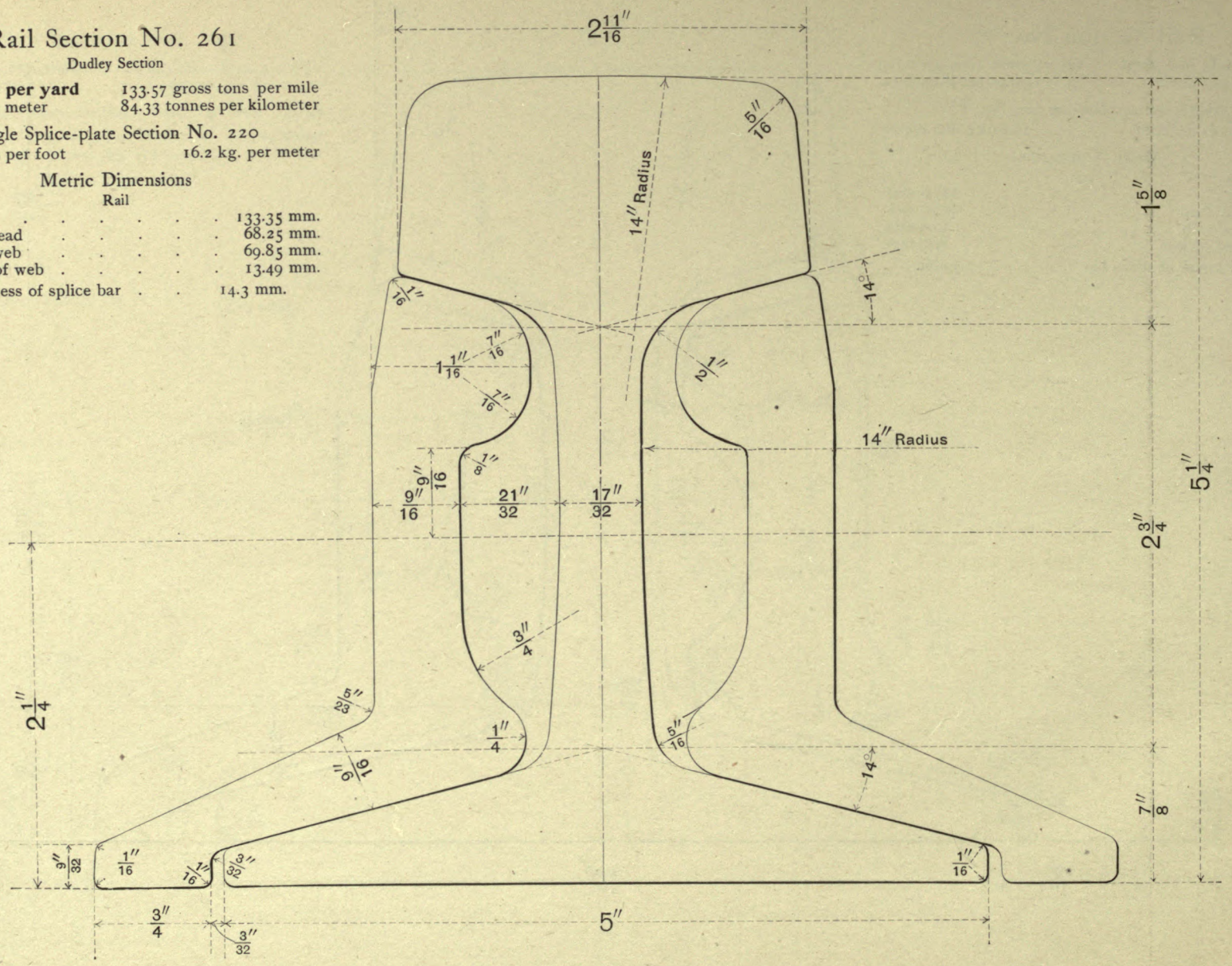
Angle Splice-plate Section No. 220

10.9 pounds per foot 16.2 kg. per meter

Metric Dimensions

Rail

Height	133.35 mm.
Width of head	68.25 mm.
Height of web	69.85 mm.
Thickness of web	13.49 mm.
Thickness of splice bar	14.3 mm.



Rail Section No. 67

Pennsylvania R. R. Standard

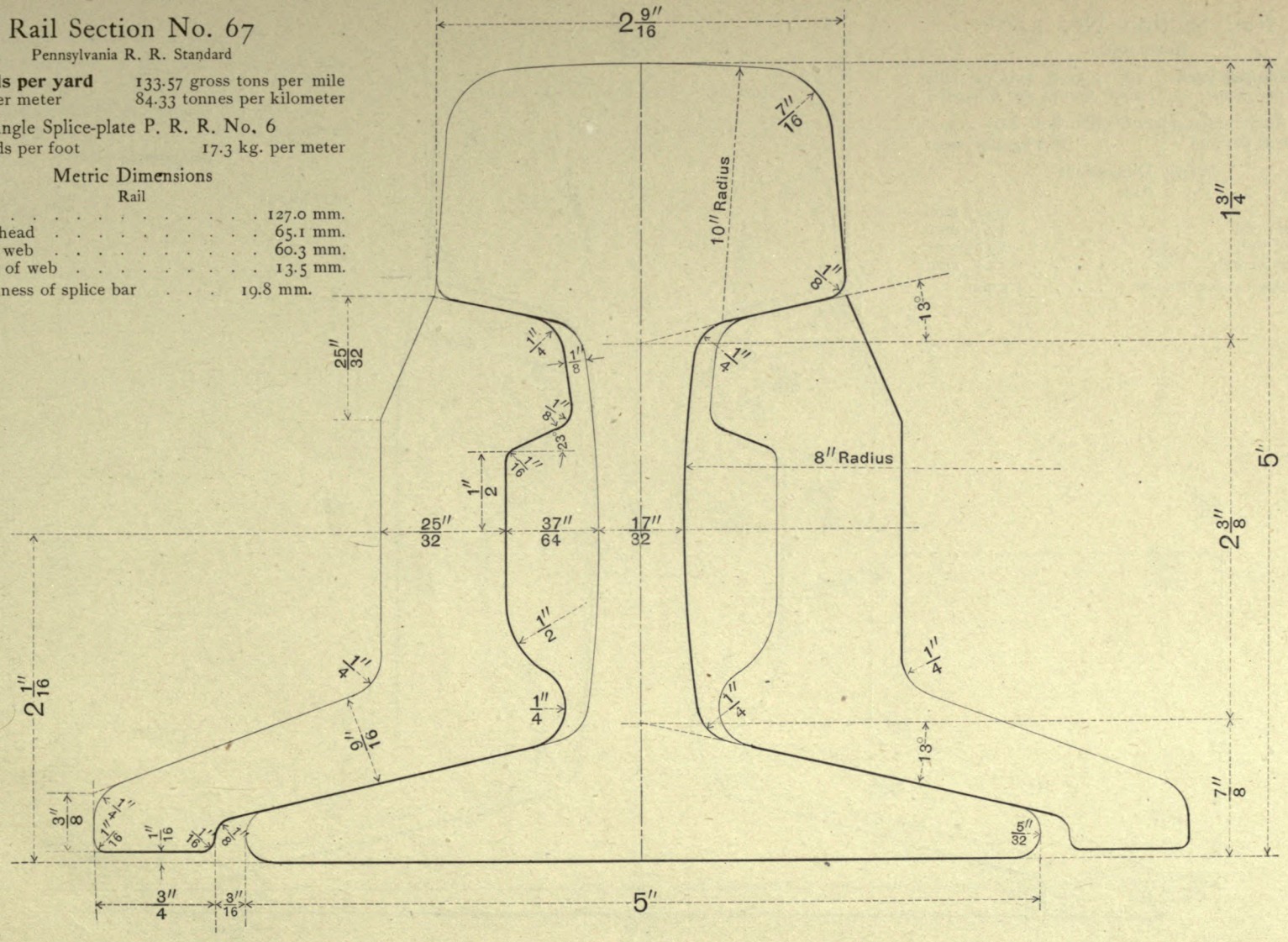
85 pounds per yard 133.57 gross tons per mile
42.2 kg. per meter 84.33 tonnes per kilometer

Angle Splice-plate P. R. R. No. 6
11.6 pounds per foot 17.3 kg. per meter

Metric Dimensions

Rail

Height	127.0 mm.
Width of head	65.1 mm.
Height of web	60.3 mm.
Thickness of web	13.5 mm.
Thickness of splice bar	19.8 mm.



REGIONAL LIBRARY FACILITY OF THE UNIVERSITY OF CALIFORNIA

Rail Section No. 220

Dudley Section

80 pounds per yard 125.71 gross tons per mile
39.7 kg. per meter 79.73 tonnes per kilometer

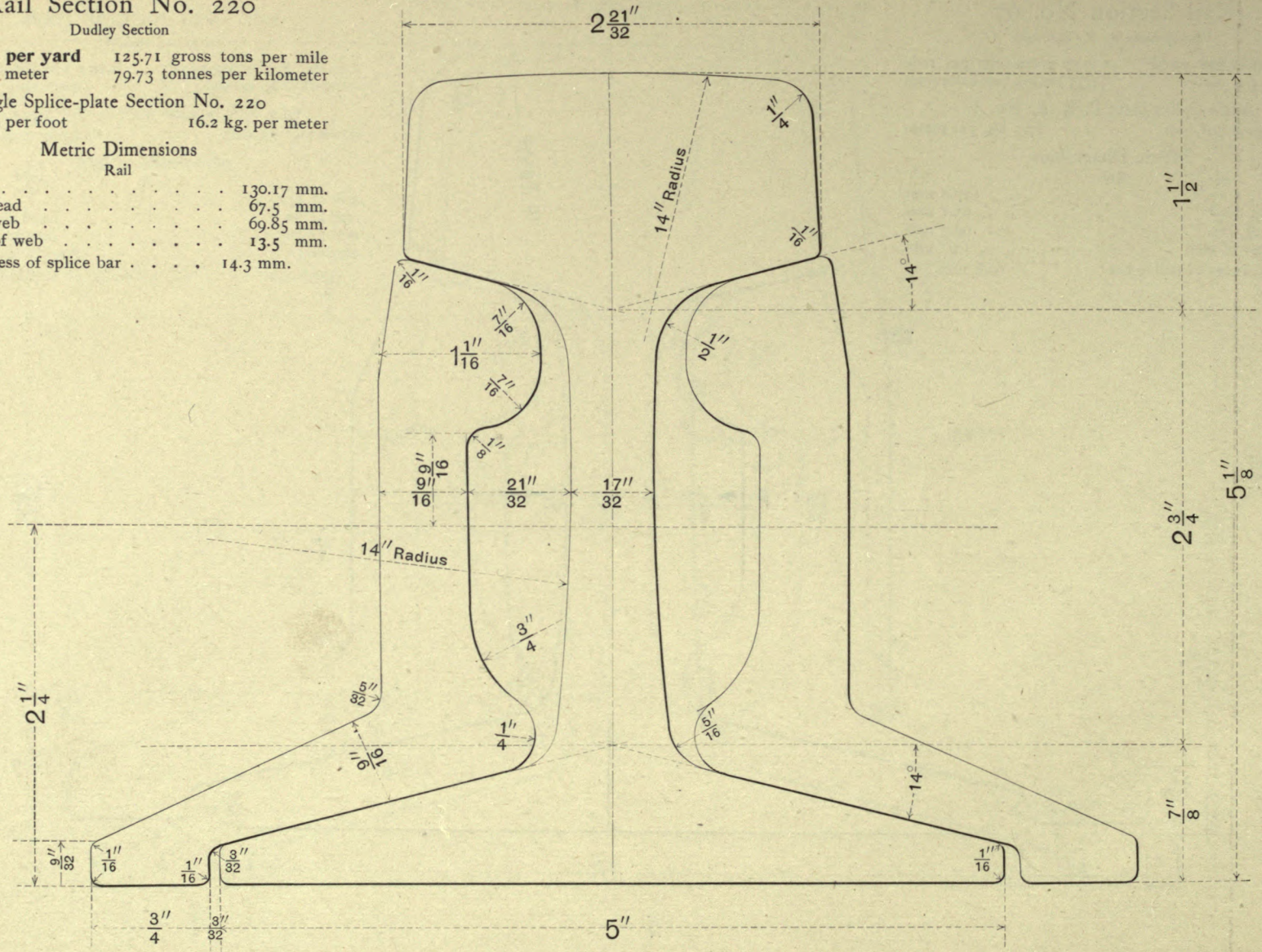
Angle Splice-plate Section No. 220

10.9 pounds per foot 16.2 kg. per meter

Metric Dimensions

Rail

Height	130.17 mm.
Width of head	67.5 mm.
Height of web	69.85 mm.
Thickness of web	13.5 mm.
Thickness of splice bar	14.3 mm.



Rail Section No. 76

79 pounds per yard 124.14 gross tons per mile
39.18 kg. per meter 78.37 tonnes per kilometer

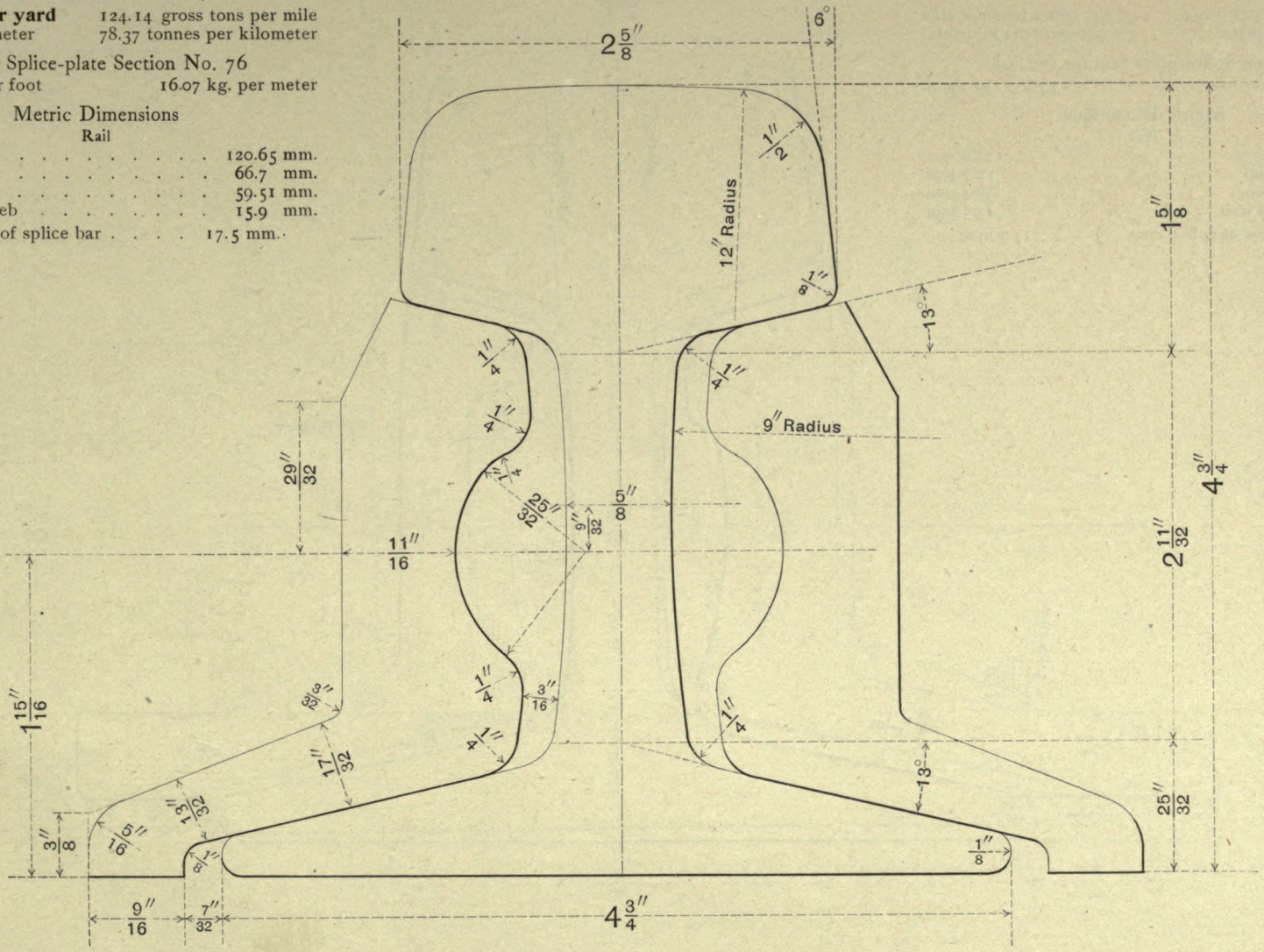
Angle Splice-plate Section No. 76

10.8 pounds per foot 16.07 kg. per meter

Metric Dimensions

Rail

Height	120.65 mm.
Width of head	66.7 mm.
Height of web	59.51 mm.
Thickness of web	15.9 mm.
Thickness of splice bar	17.5 mm.



REESE LIBRARY OF THE UNIVERSITY OF CALIFORNIA

Rail Section No. 98

78 pounds per yard 122.57 gross tons per mile
38.7 kg. per meter 77.38 tonnes per kilometer

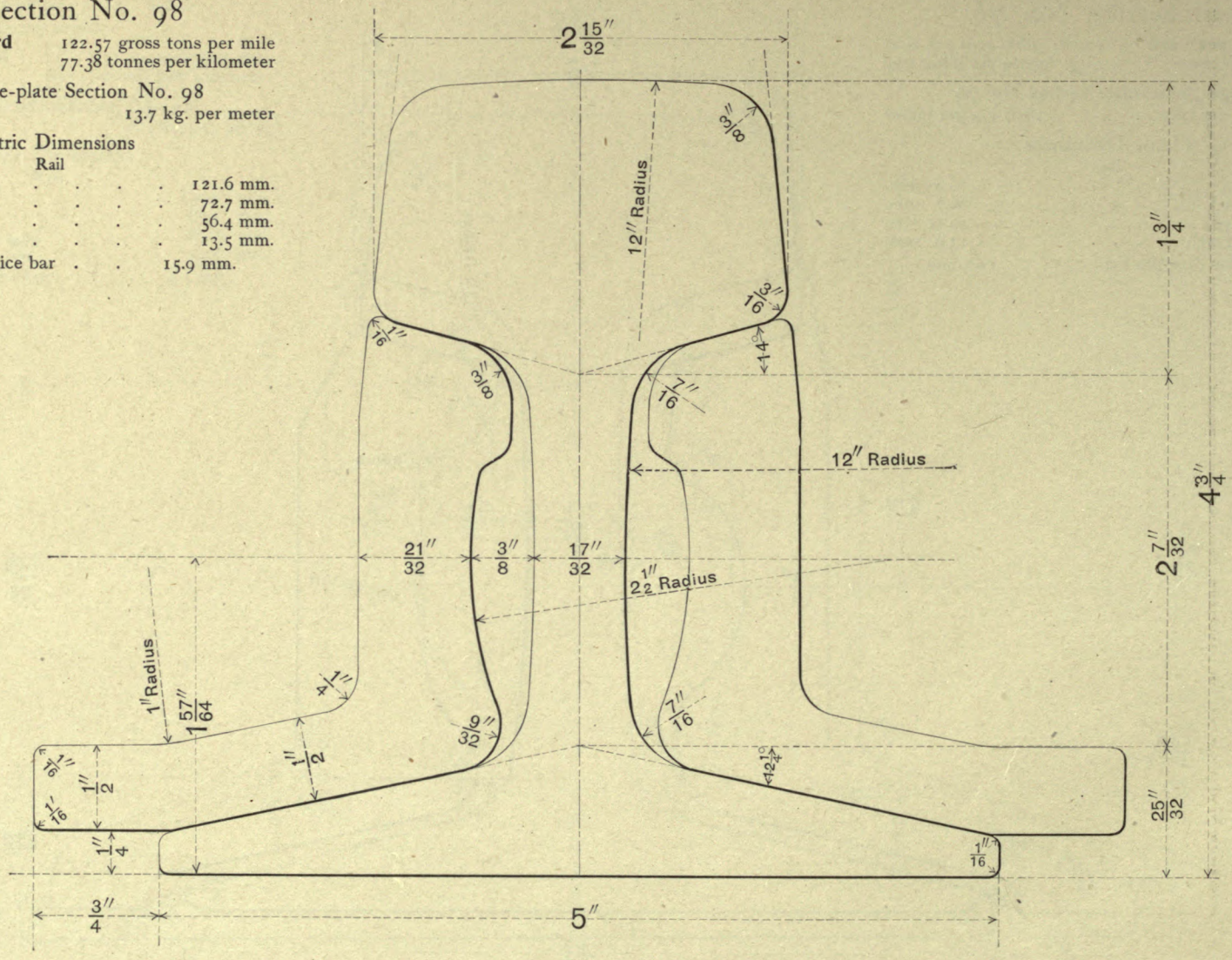
Angle Splice-plate Section No. 98

9.2 pounds per foot 13.7 kg. per meter

Metric Dimensions

Rail

Height	121.6 mm.
Width of head	72.7 mm.
Height of web	56.4 mm.
Thickness of web	13.5 mm.
Thickness of splice bar	15.9 mm.



Rail Section No. 216

76 pounds per yard 119.43 gross tons per mile
37.70 kg. per meter 75.39 tonnes per kilometer

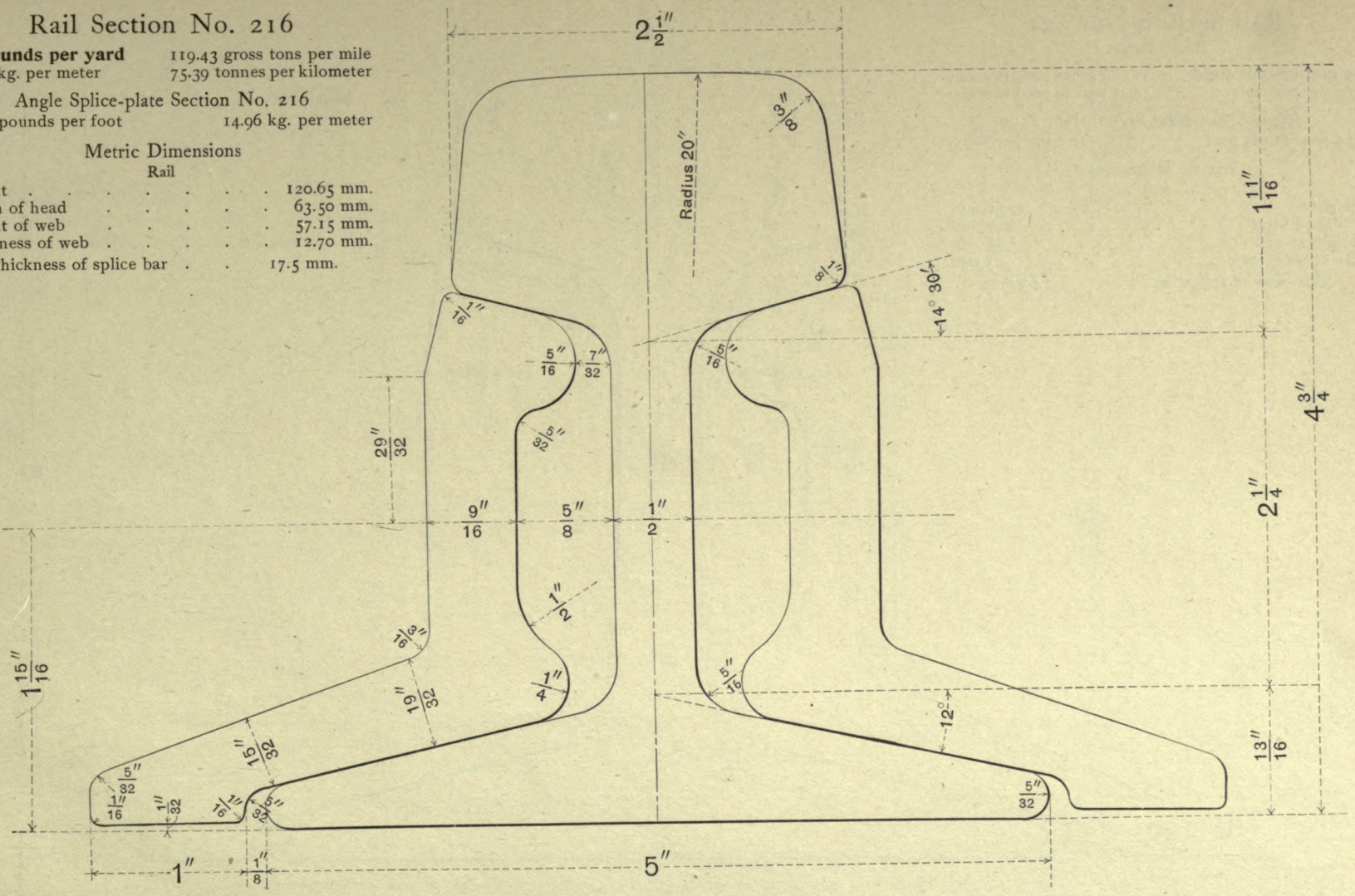
Angle Splice-plate Section No. 216

10.07 pounds per foot 14.96 kg. per meter

Metric Dimensions

Rail

Height	120.65 mm.
Width of head	63.50 mm.
Height of web	57.15 mm.
Thickness of web	12.70 mm.
Thickness of splice bar	17.5 mm.



REESE LIBRARY OF THE UNIVERSITY OF CALIFORNIA

Rail Section No. 221

Dudley Section

75 pounds per yard 117.86 gross tons per mile
37.2 kg. per meter 74.41 tonnes per kilometer

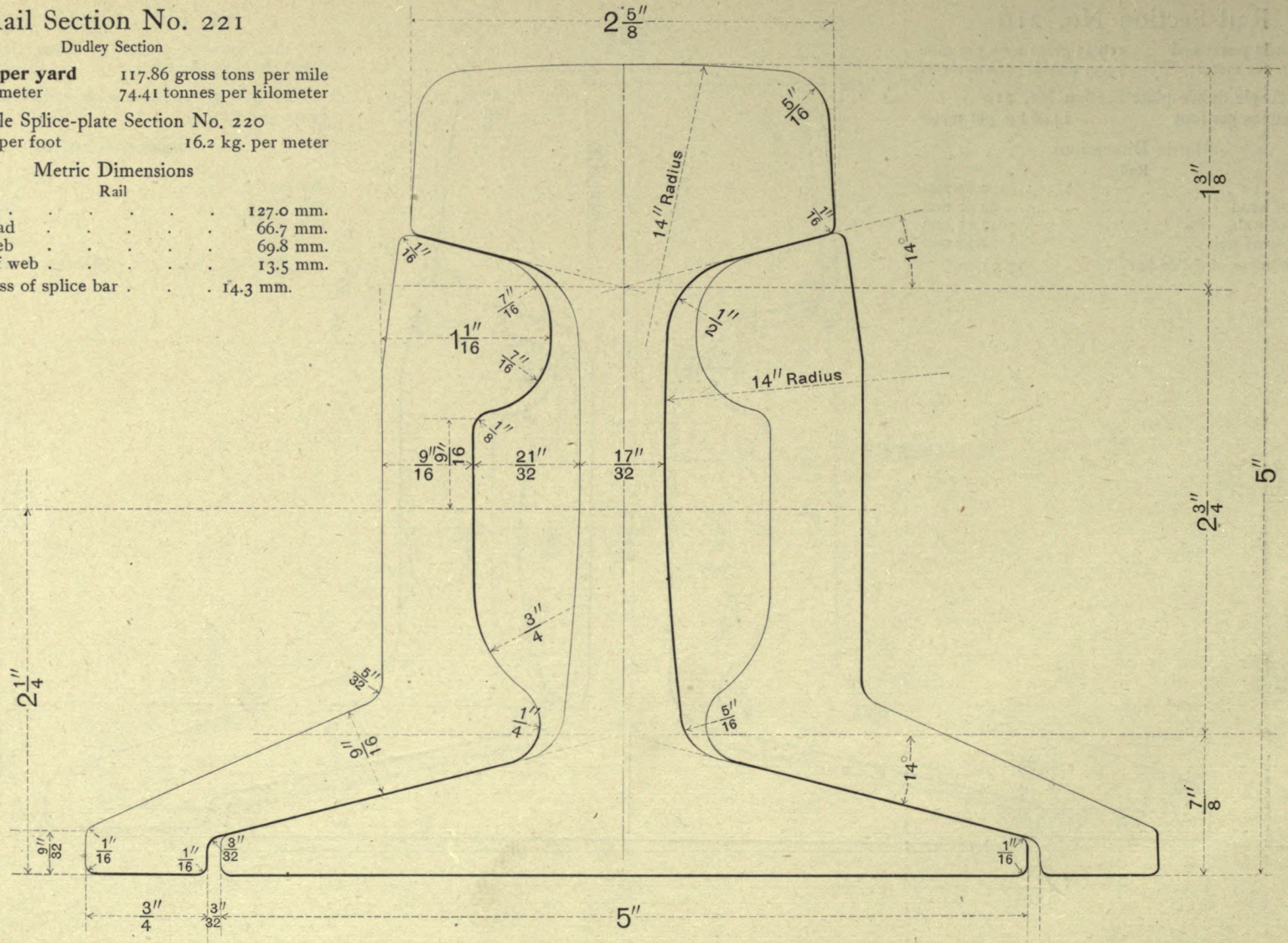
Angle Splice-plate Section No. 220

10.9 pounds per foot 16.2 kg. per meter

Metric Dimensions

Rail

Height	127.0 mm.
Width of head	66.7 mm.
Height of web	69.8 mm.
Thickness of web	13.5 mm.
Thickness of splice bar	14.3 mm.



Rail Section No. 249

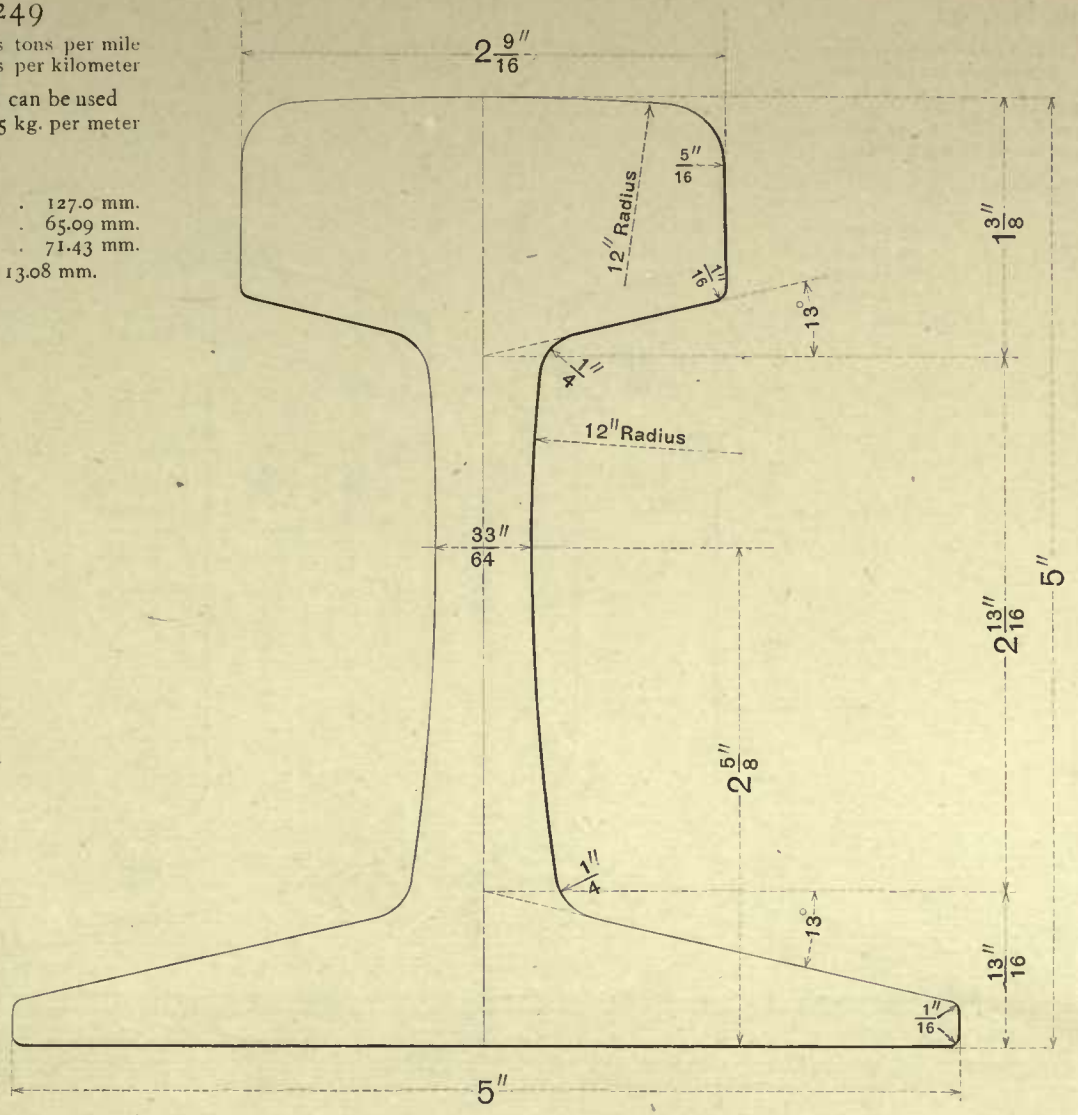
75 pounds per yard 117.86 gross tons per mile
37.2 kg. per meter 74.41 tonnes per kilometer

Angle Splice-plate Section No. 245 can be used
12.8 pounds per foot 19.05 kg. per meter

Metric Dimensions

Rail

Height	127.0 mm.
Width of head	65.09 mm.
Height of web	71.43 mm.
Thickness of web	13.08 mm.



UNIVERSITY OF CALIFORNIA

Rail Section No. 92

75 pounds per yard 117.86 gross tons per mile
37.2 kg. per meter 74.41 tonnes per kilometer

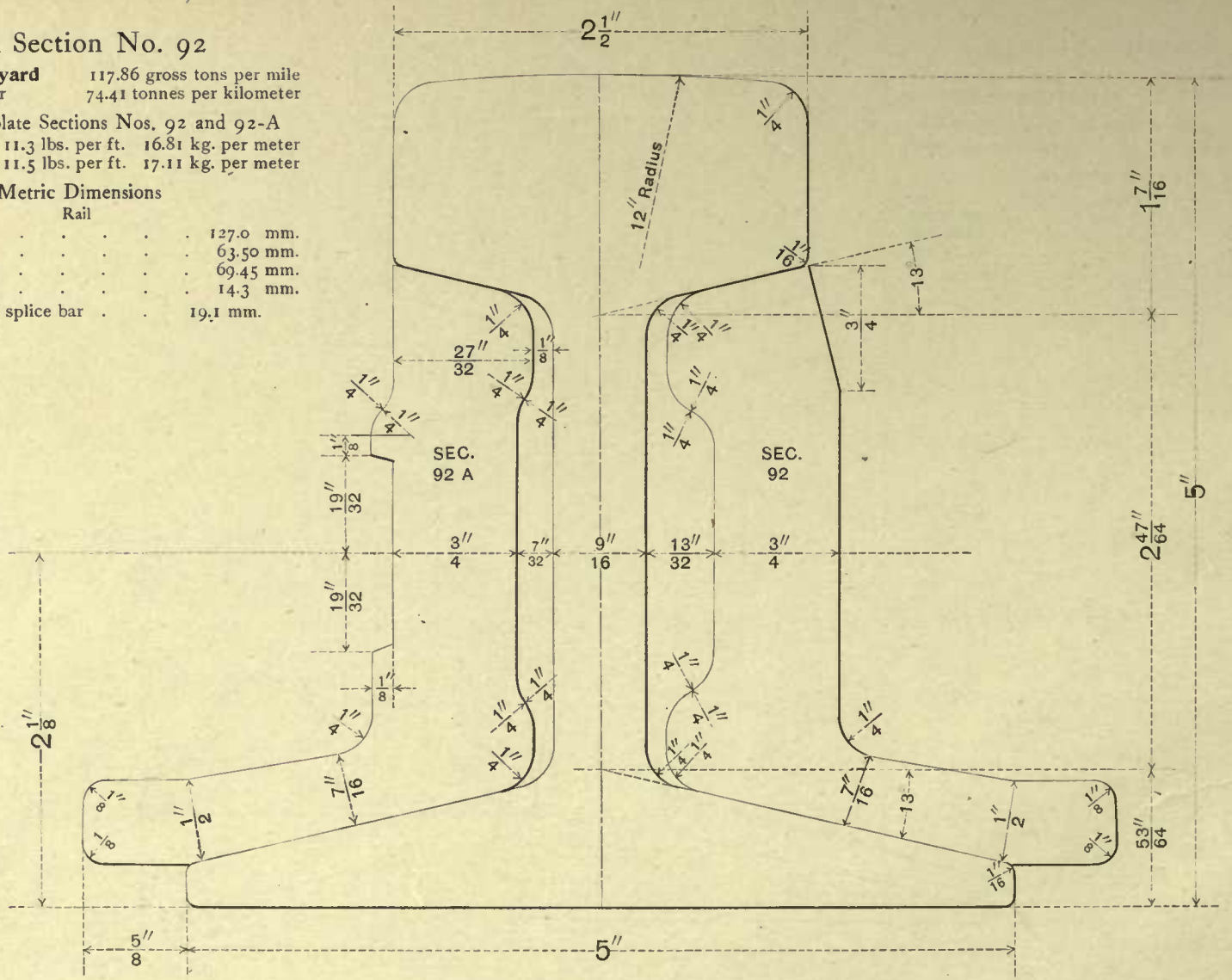
Angle Splice-plate Sections Nos. 92 and 92-A

Splice Sec. 92, 11.3 lbs. per ft. 16.81 kg. per meter
Splice Sec. 92-A, 11.5 lbs. per ft. 17.11 kg. per meter

Metric Dimensions

Rail

Height	127.0 mm.
Width of head	63.50 mm.
Height of web	69.45 mm.
Thickness of web	14.3 mm.
Thickness of splice bar	19.1 mm.



Rail Section No. 87

75 pounds per yard 117.86 gross tons per mile
37.2 kg. per meter 74.41 tonnes per kilometer

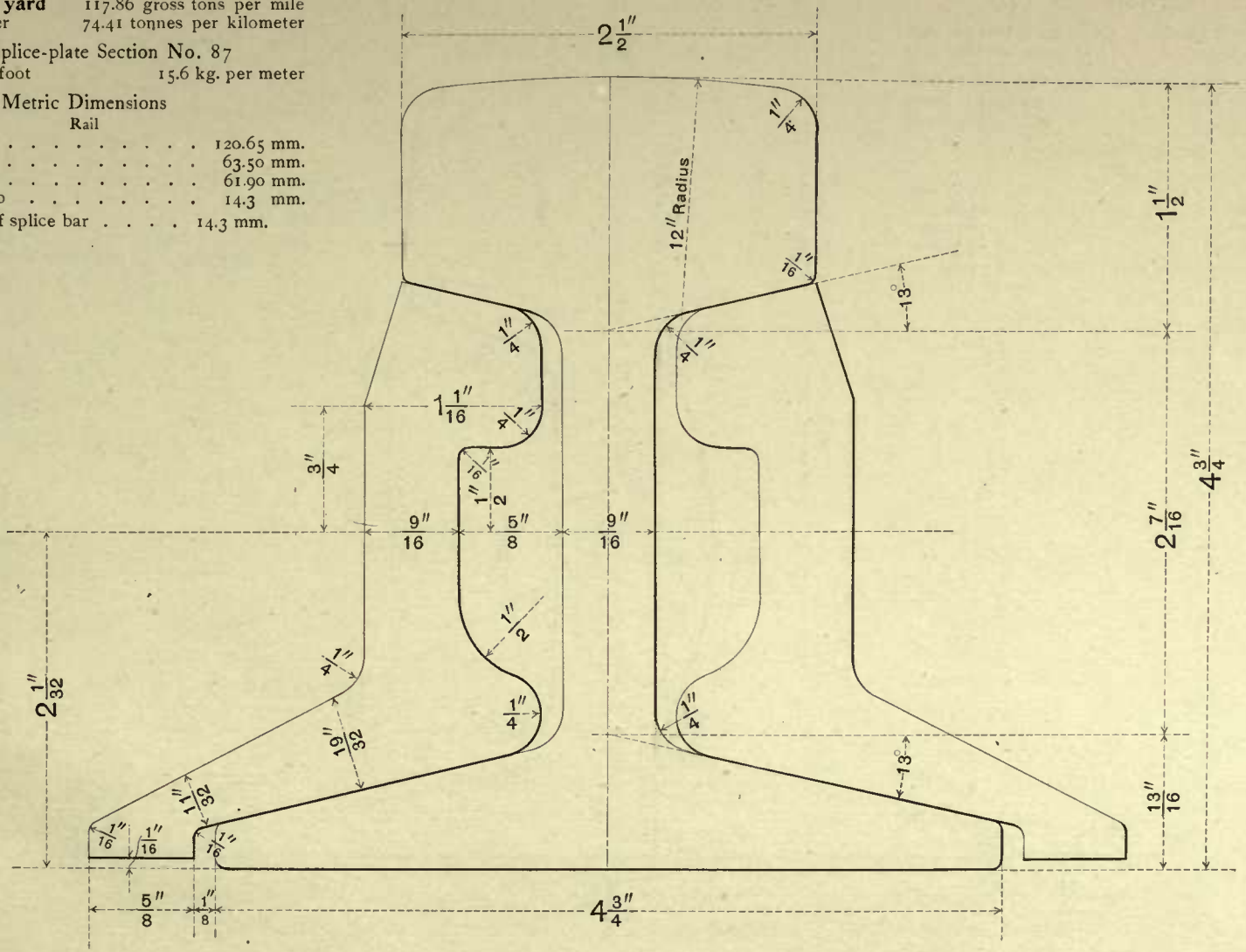
Angle Splice-plate Section No. 87

10.5 pounds per foot 15.6 kg. per meter

Metric Dimensions

Rail

Height	120.65 mm.
Width of head	63.50 mm.
Height of web	61.90 mm.
Thickness of web	14.3 mm.
Thickness of splice bar	14.3 mm.



Rail Section No. 146

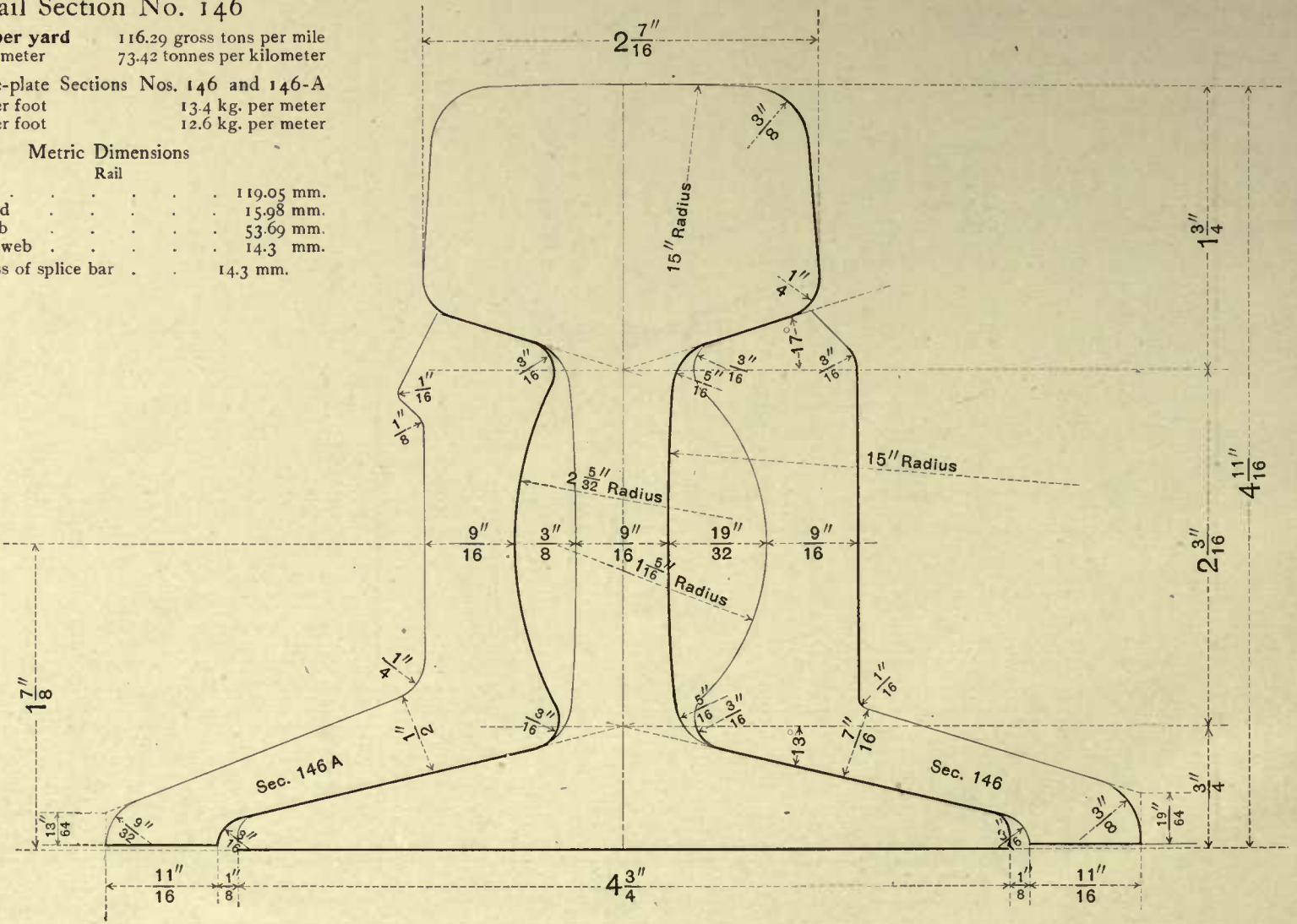
74 pounds per yard 116.29 gross tons per mile
36.71 kg. per meter 73.42 tonnes per kilometer

Angle Splice-plate Sections Nos. 146 and 146-A
9.0 pounds per foot 13.4 kg. per meter
8.5 pounds per foot 12.6 kg. per meter

Metric Dimensions

Rail

Height	119.05 mm.
Width of head	15.98 mm.
Height of web	53.69 mm.
Thickness of web	14.3 mm.
Thickness of splice bar	14.3 mm.



Rail Section No. 97

70 pounds per yard 110.0 gross tons per mile
34.7 kg. per meter 69.45 tonnes per kilometer

Angle Splice-plate Section No. 97

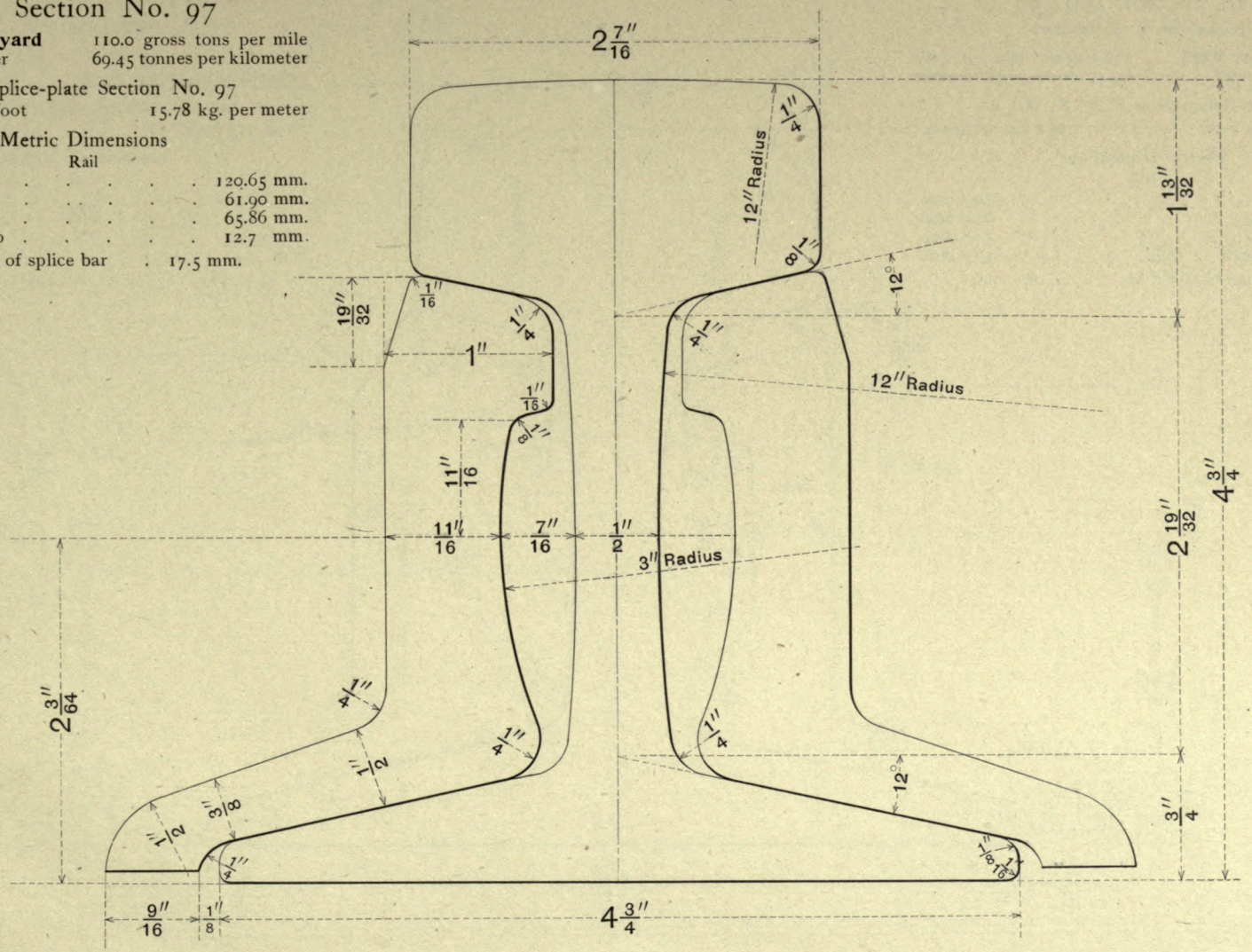
10.6 pounds per foot 15.78 kg. per meter

Metric Dimensions

Rail

Height	120.65 mm.
Width of head	61.90 mm.
Height of web	65.86 mm.
Thickness of web	12.7 mm.

Thickness of splice bar . 17.5 mm.



UNIVERSITY OF CALIFORNIA

Rail Section No. 57

Pennsylvania R. R. Standard

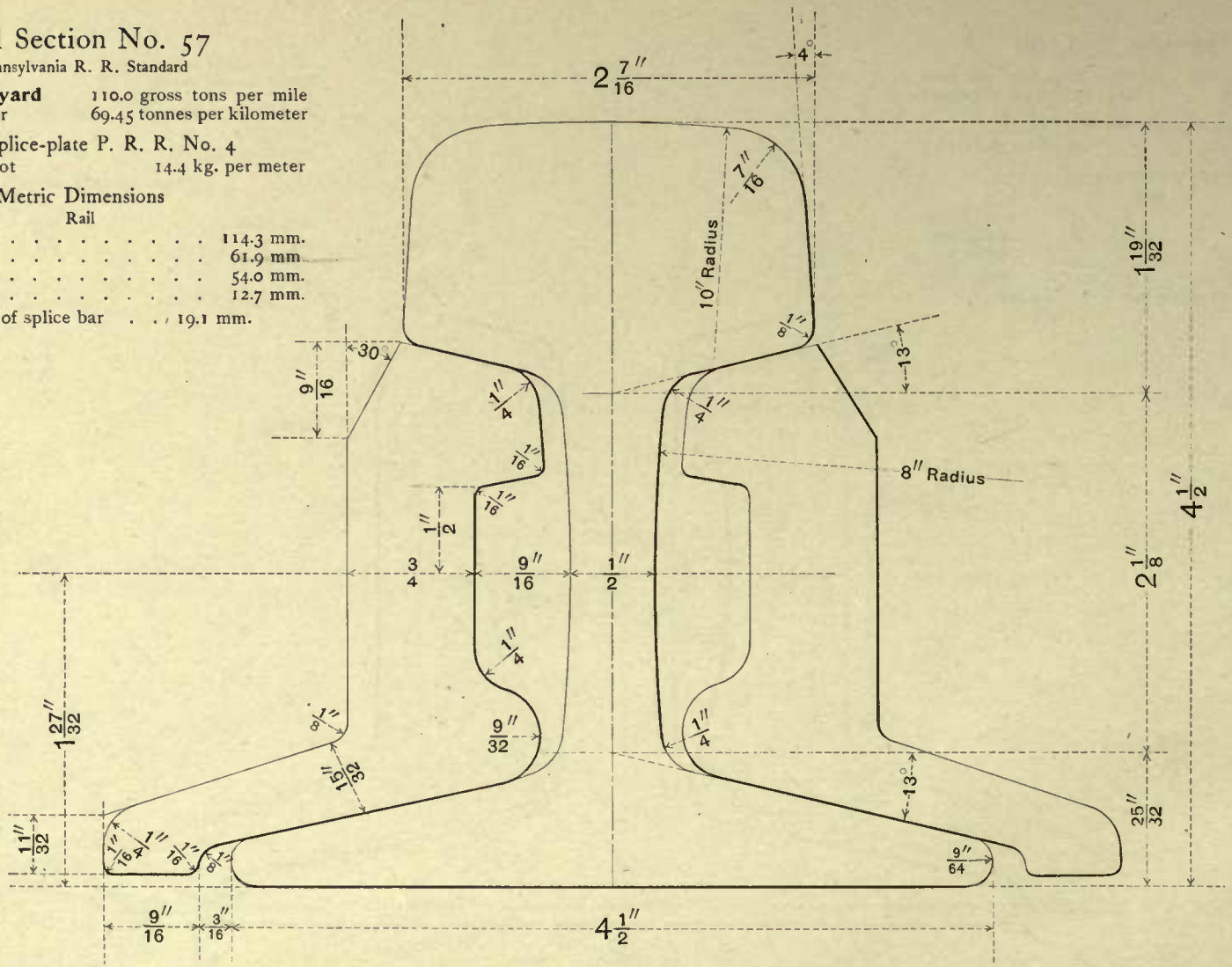
70 pounds per yard 110.0 gross tons per mile
34.7 kg. per meter 69.45 tonnes per kilometer

Angle Splice-plate P. R. R. No. 4
9.7 pounds per foot 14.4 kg. per meter

Metric Dimensions

Rail

Height	114.3 mm.
Width of head	61.9 mm.
Height of web	54.0 mm.
Thickness of web	12.7 mm.
Thickness of splice bar	19.1 mm.



Rail Section No. 62

68 pounds per yard 106.86 gross tons per mile
33.74 kg per meter 67.46 tonnes per kilometer

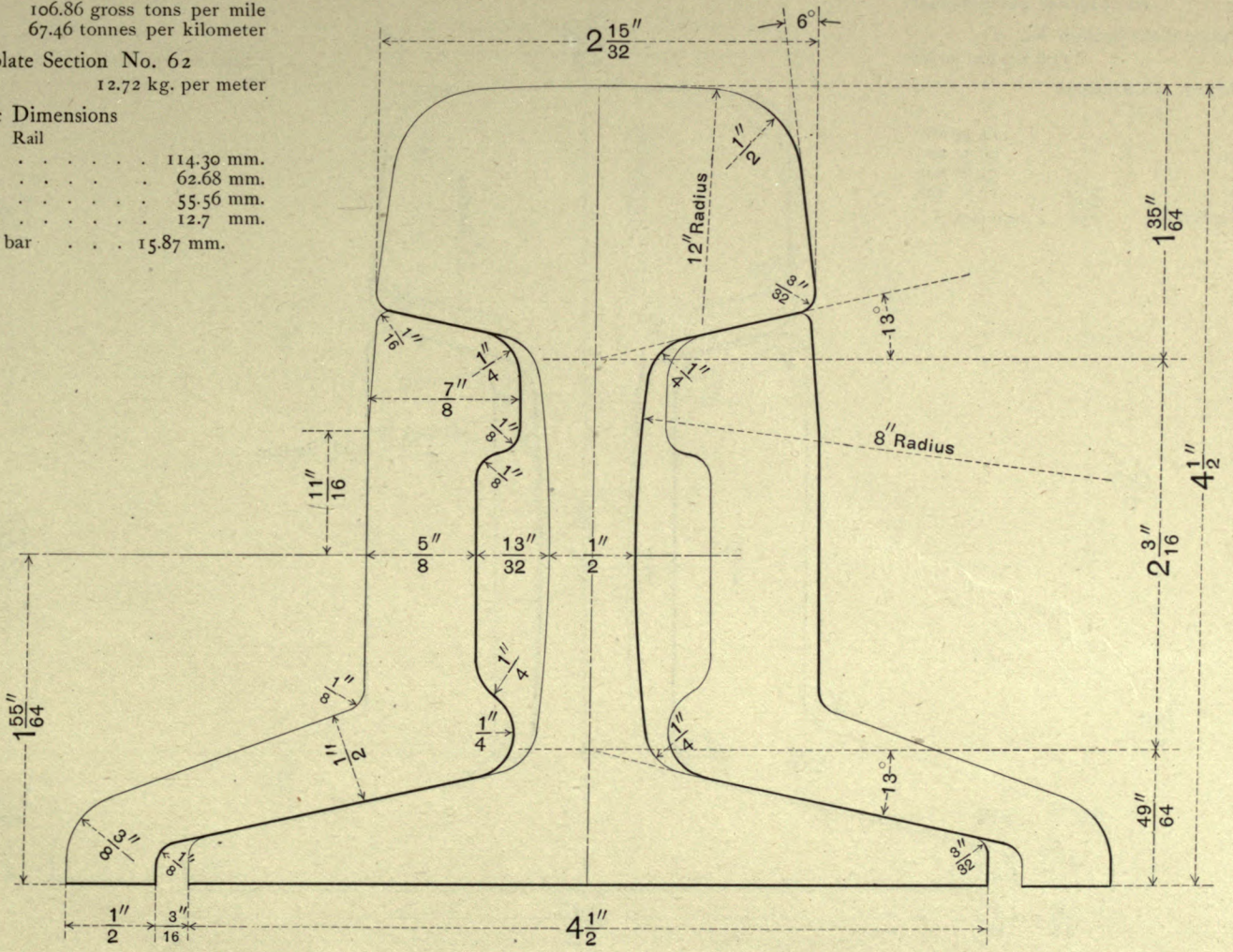
Angle Splice-plate Section No. 62

8.54 pounds per foot 12.72 kg. per meter

Metric Dimensions

Rail

Height	114.30 mm.
Width of head	62.68 mm.
Height of web	55.56 mm.
Thickness of web	12.7 mm.
Thickness of splice bar	15.87 mm.



Rail Section No. 2

67 pounds per yard 105.29 gross tons per mile
33.2 kg. per meter 66.43 tonnes per kilometer

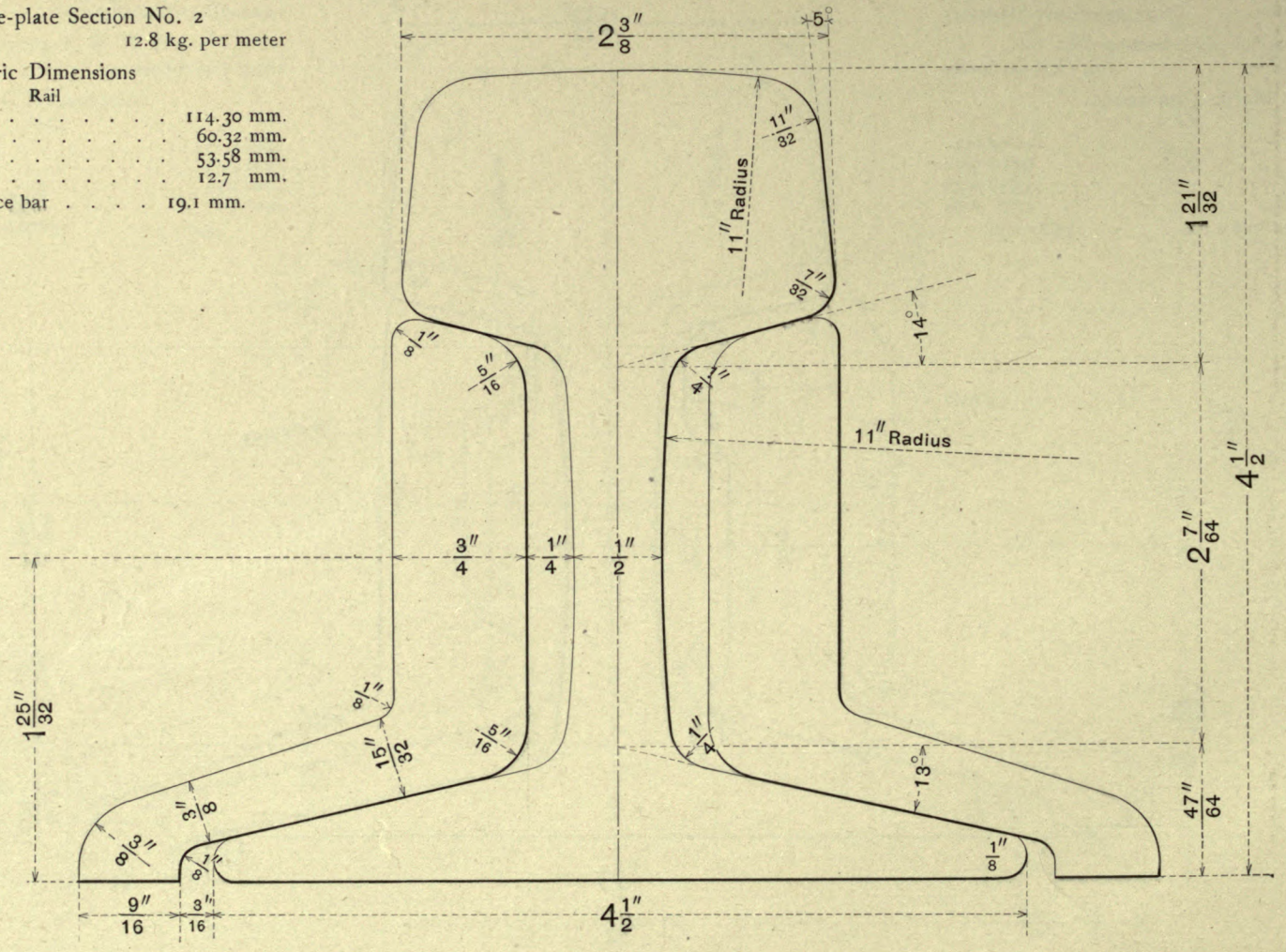
Angle Splice-plate Section No. 2

8.6 pounds per foot 12.8 kg. per meter

Metric Dimensions

Rail

Height	114.30 mm.
Width of head	60.32 mm.
Height of web	53.58 mm.
Thickness of web	12.7 mm.
Thickness of splice bar	19.1 mm.



Rail Section No. 145

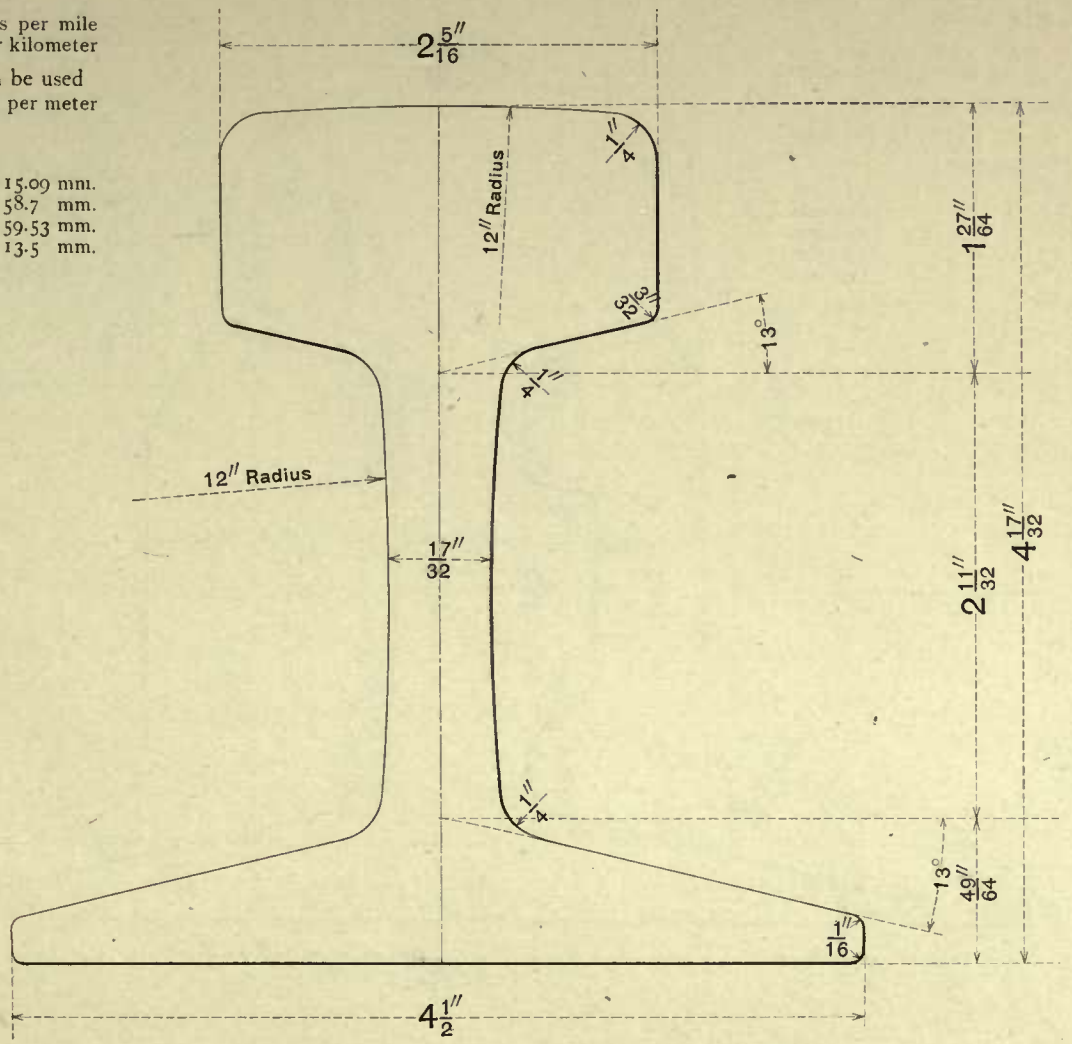
66 pounds per yard 103.71 gross tons per mile
32.74 kg. per meter 65.48 tonnes per kilometer

Angle Splice-plate Section No. 216 can be used
10.78 pounds per foot 16.05 kg. per meter

Metric Dimensions

Rail

Height	115.09 mm.
Width of head	58.7 mm.
Height of web	59.53 mm.
Thickness of web	13.5 mm.



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Rail Section No. 6

Pennsylvania R. R. Standard

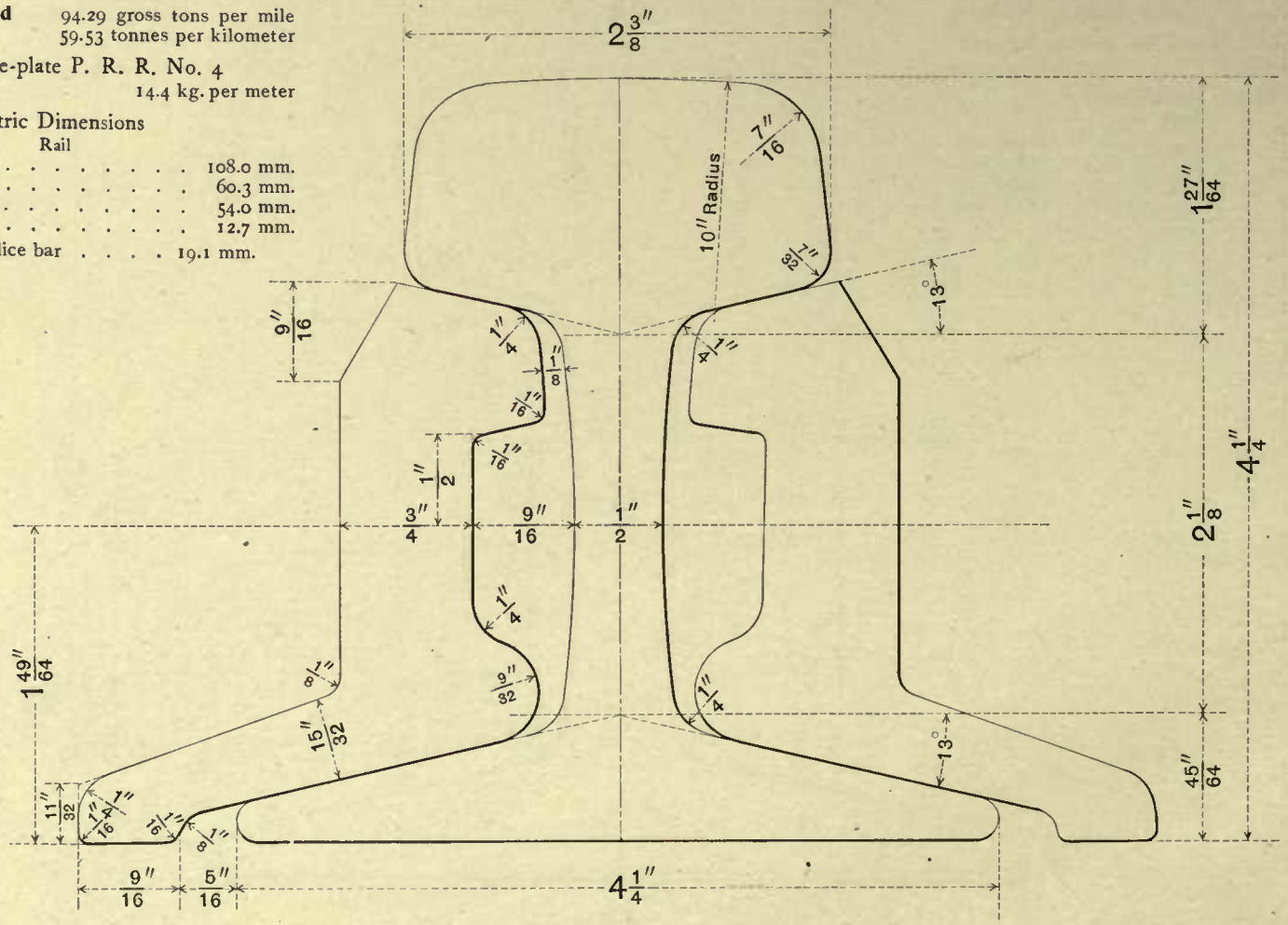
60 pounds per yard 94.29 gross tons per mile
29.8 kg. per meter 59.53 tonnes per kilometer

Angle Splice-plate P. R. R. No. 4
9.7 pounds per foot 14.4 kg. per meter

Metric Dimensions

Rail

Height	108.0 mm.
Width of head	60.3 mm.
Height of web	54.0 mm.
Thickness of web	12.7 mm.
Thickness of splice bar	19.1 mm.



Rail Section No. 63

58¼ pounds per yard 91.54 gross tons per mile
28.9 kg. per meter 57.76 tonnes per kilometer

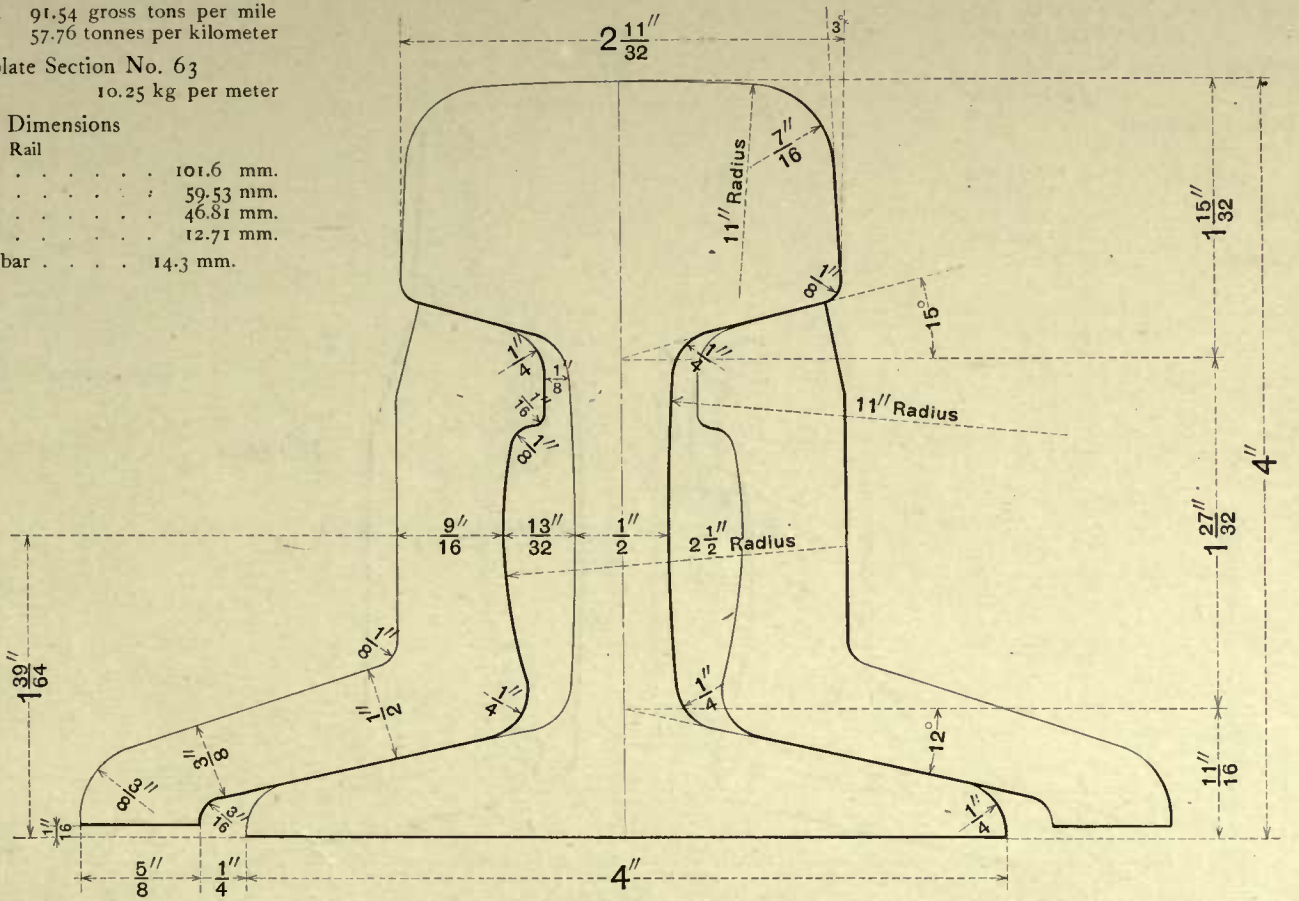
Angle Splice-plate Section No. 63

6.90 pounds per foot 10.25 kg per meter

Metric Dimensions

Rail

Height	101.6 mm.
Width of head	59.53 mm.
Height of web	46.81 mm.
Thickness of web	12.71 mm.
Thickness of splice bar	14.3 mm.



UNIVERSITY OF CALIFORNIA

Rail Section No. 7

58 pounds per yard 91.14 gross tons per mile
28.77 kg. per meter 57.51 tonnes per kilometer

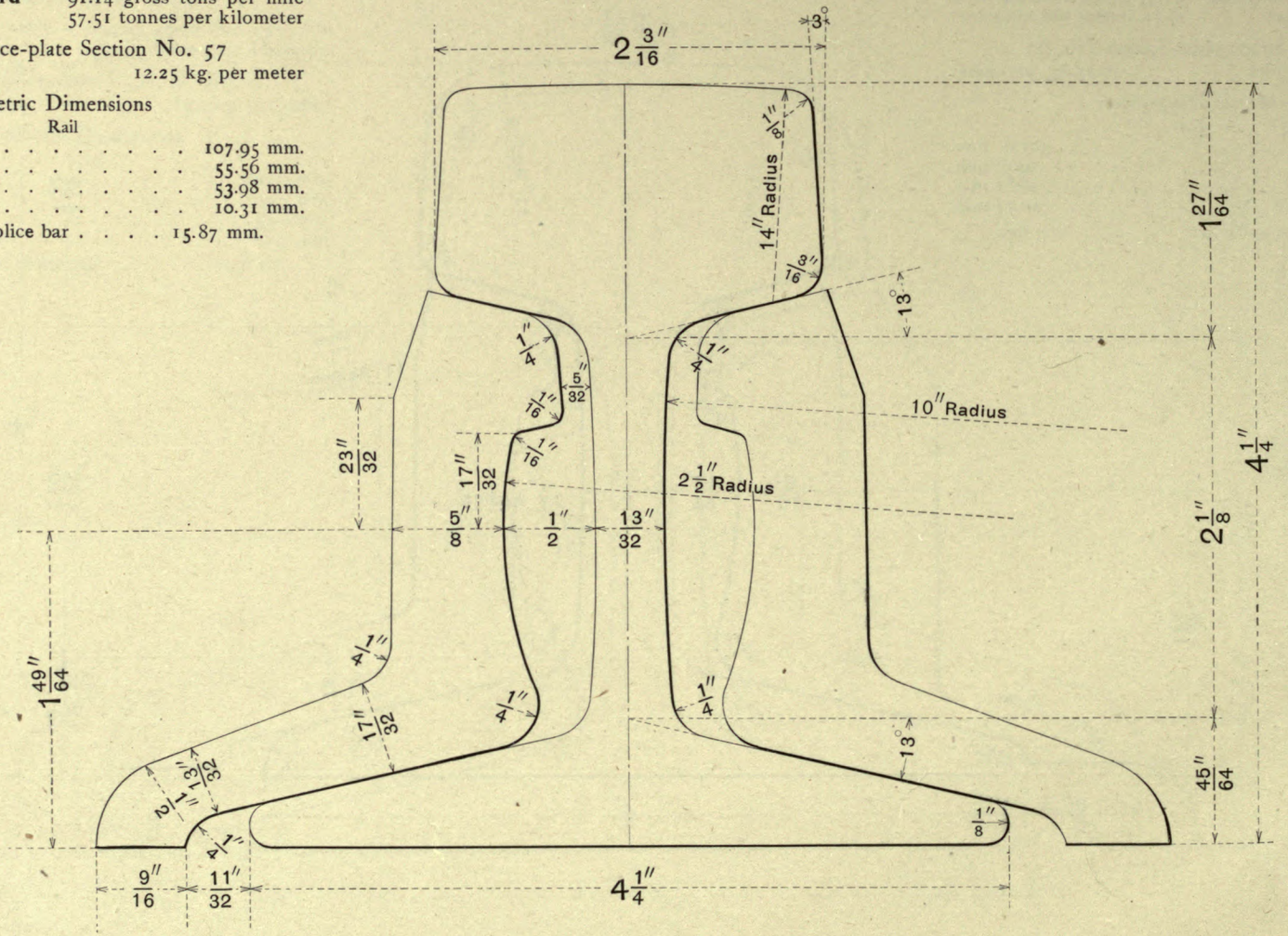
Angle Splice-plate Section No. 57

8.2 pounds per foot 12.25 kg. per meter

Metric Dimensions

Rail

Height	107.95 mm.
Width of head	55.56 mm.
Height of web	53.98 mm.
Thickness of web	10.31 mm.
Thickness of splice bar	15.87 mm.



Rail Section No. 51

56 pounds per yard 88.0 gross tons per mile
27.74 kg. per meter 55.52 tonnes per kilometer

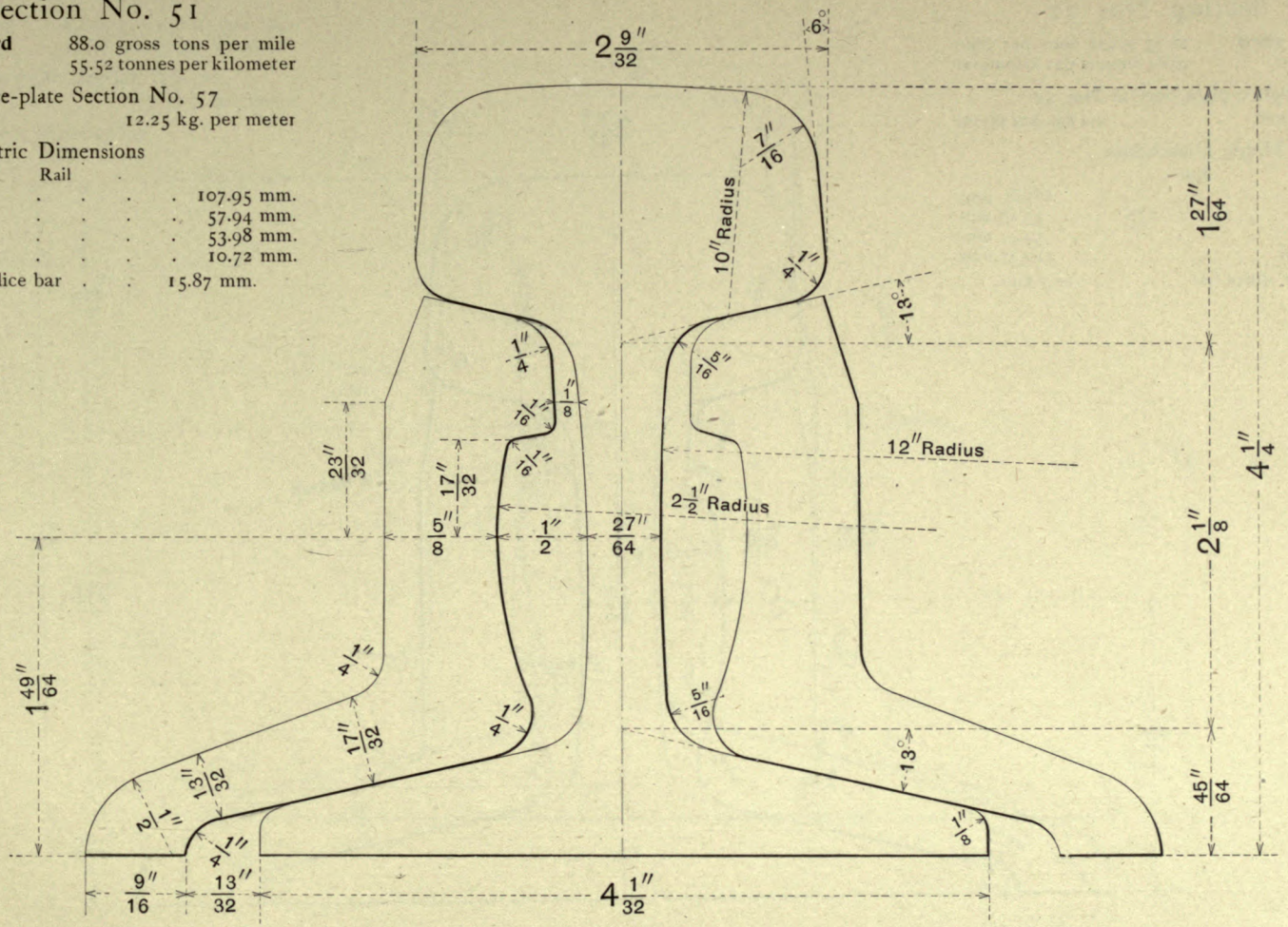
Angle Splice-plate Section No. 57

8.2 pounds per foot 12.25 kg. per meter

Metric Dimensions

Rail

Height	107.95 mm.
Width of head	57.94 mm.
Height of web	53.98 mm.
Thickness of web	10.72 mm.
Thickness of splice bar	15.87 mm.



UNIVERSITY OF CALIFORNIA

Rail Section No. 22

50 pounds per yard 78.57 gross tons per mile
24.8 kg. per meter 49.61 tonnes per kilometer

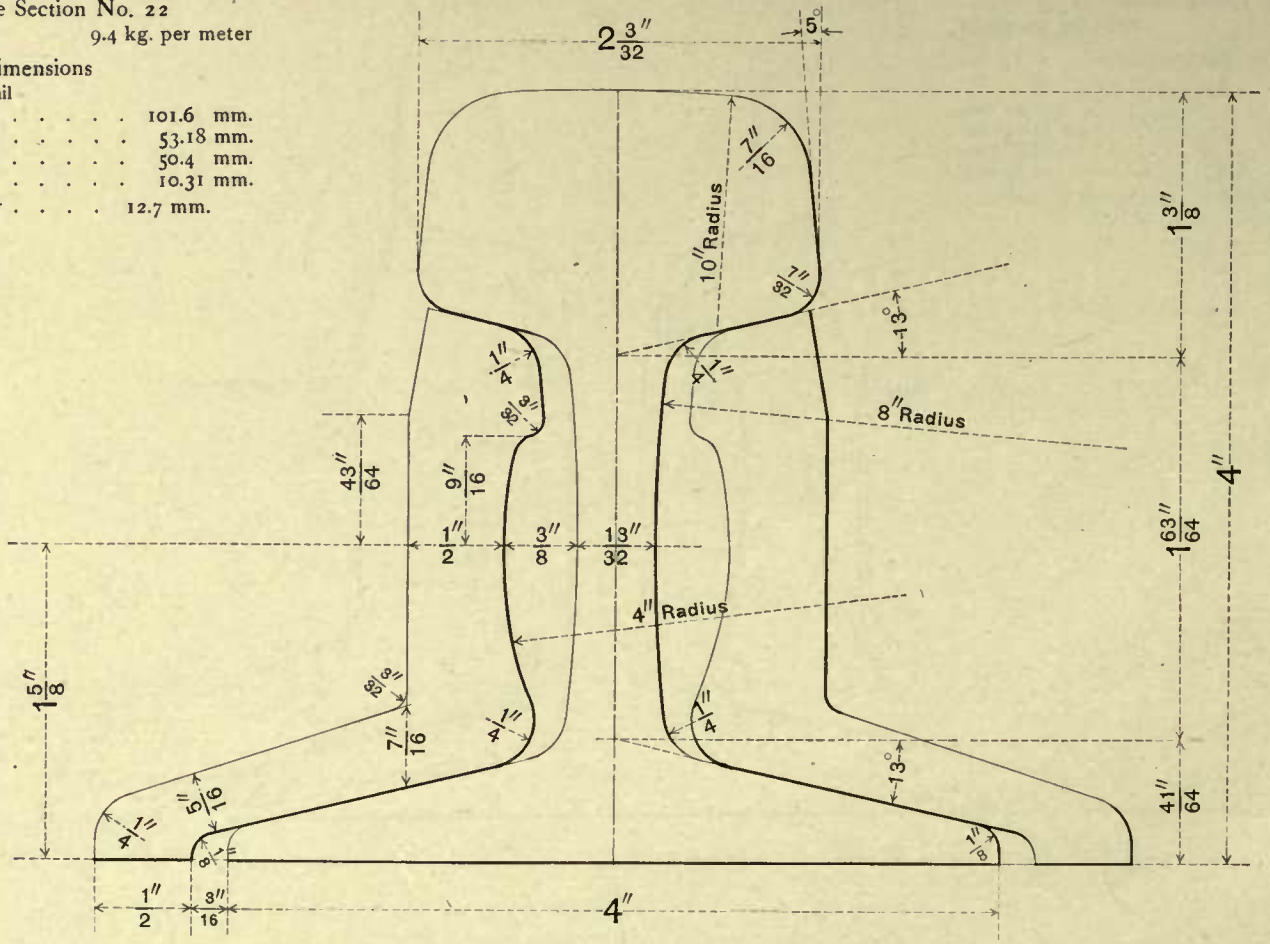
Angle Splice-plate Section No. 22

6.3 pounds per foot 9.4 kg. per meter

Metric Dimensions

Rail

Height	101.6 mm.
Width of head	53.18 mm.
Height of web	50.4 mm.
Thickness of web	10.31 mm.
Thickness of splice bar	12.7 mm.



Rail Section No. 88

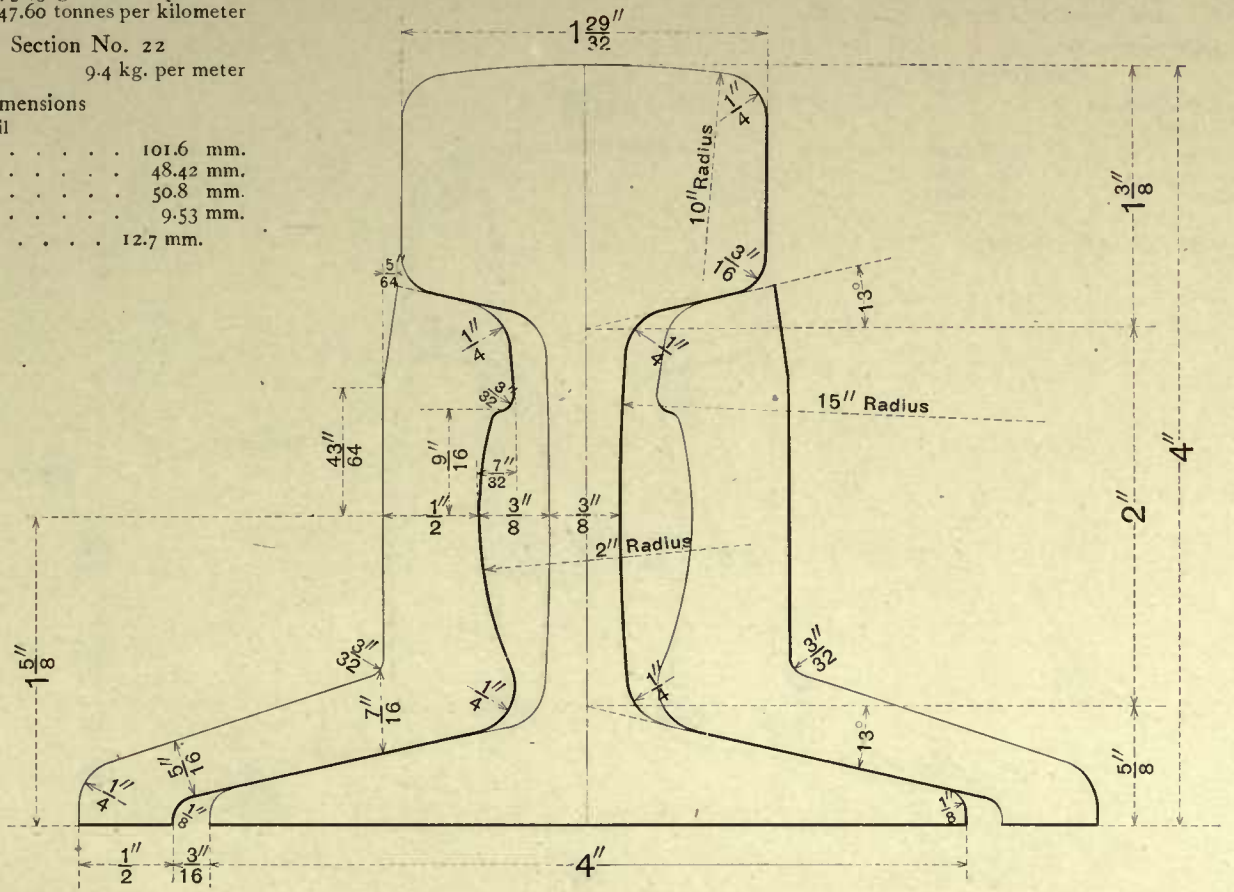
48 pounds per yard 75.43 gross tons per mile
23.81 kg. per meter 47.60 tonnes per kilometer

Angle Splice-plate Section No. 22
6.3 pounds per foot 9.4 kg. per meter

Metric Dimensions

Rail

Height	101.6 mm.
Width of head	48.42 mm.
Height of web	50.8 mm.
Thickness of web	9.53 mm.
Thickness of splice bar	12.7 mm.



UNIVERSITY OF CALIFORNIA

Rail Section No. 36

45 pounds per yard 70.71 gross tons per mile
22.3 kg. per meter 44.64 tonnes per kilometer

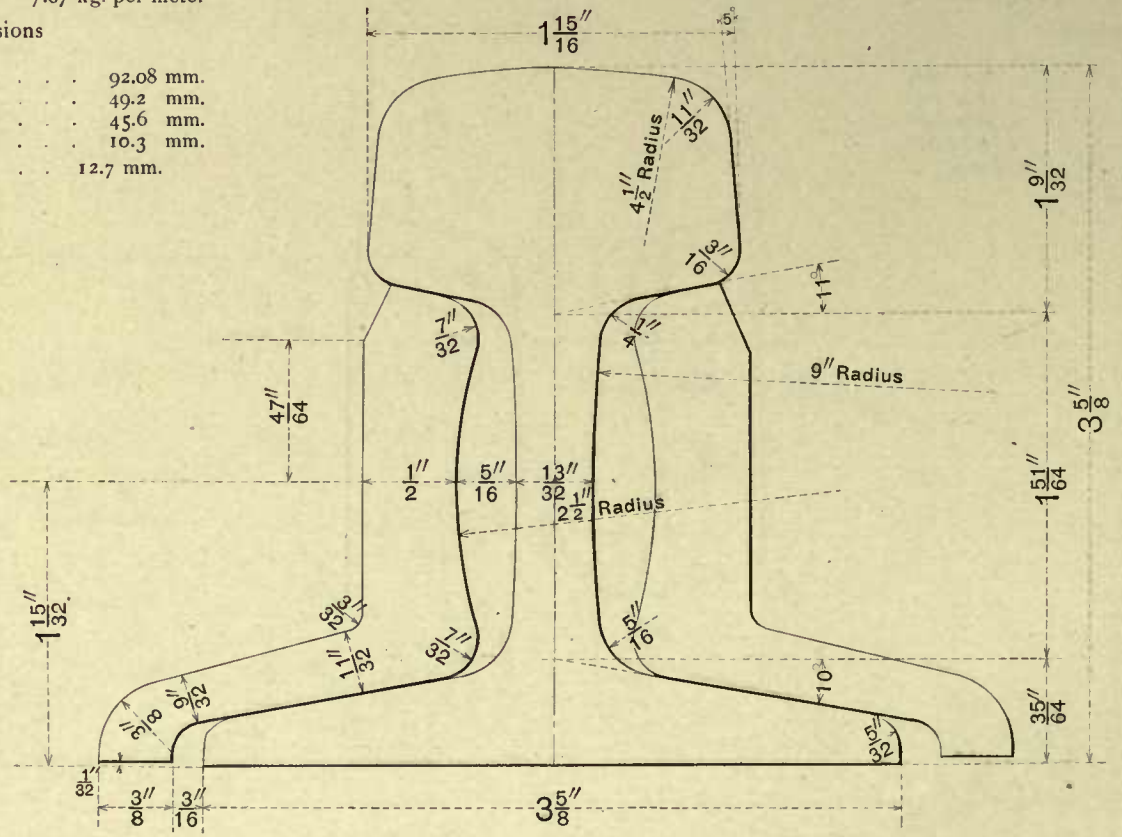
Angle Splice-plate Section No. 36

5.15 pounds per foot 7.67 kg. per meter

Metric Dimensions

Rail

Height	92.08 mm.
Width of head	49.2 mm.
Height of web	45.6 mm.
Thickness of web	10.3 mm.
Thickness of splice bar	12.7 mm.



Rail Section No. 32

40 pounds per yard 62.86 gross tons per mile
19.8 kg. per meter 39.68 tonnes per kilometer

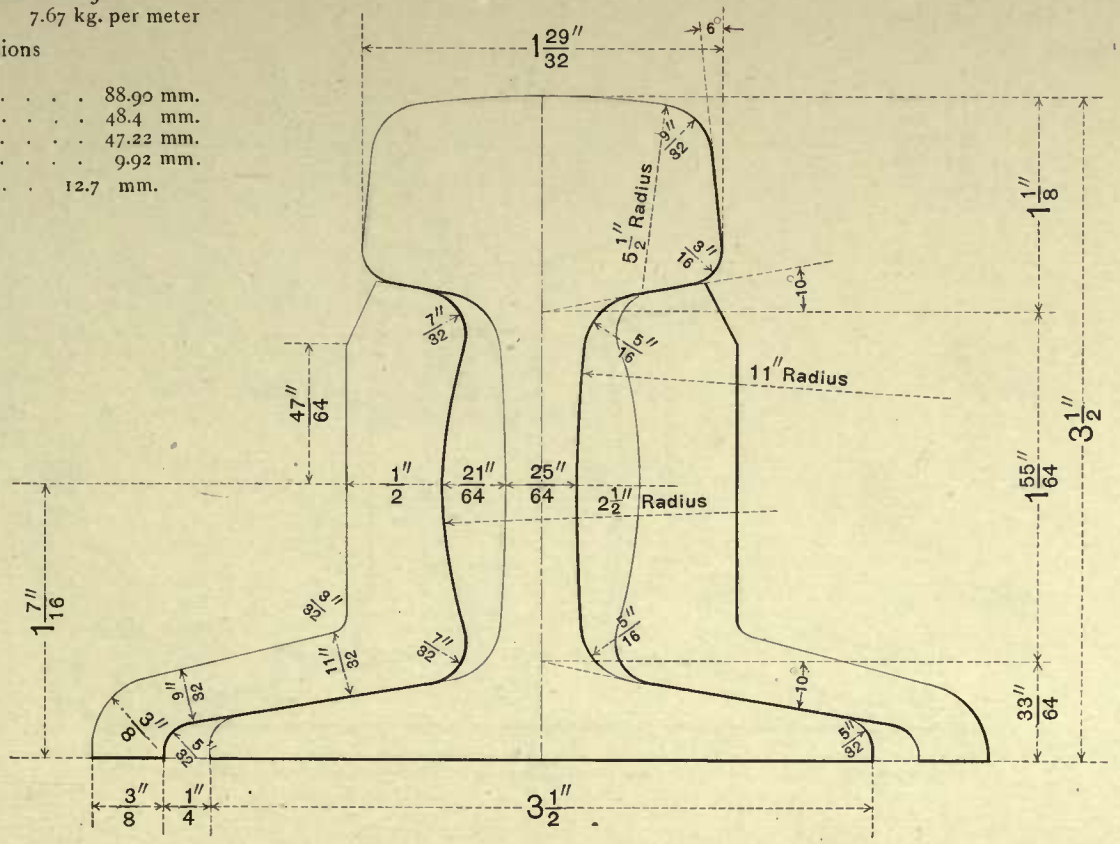
Angle Splice-plate Section No. 36

5.15 pounds per foot 7.67 kg. per meter

Metric Dimensions

Rail

Height	88.90 mm.
Width of head	48.4 mm.
Height of web	47.22 mm.
Thickness of web	9.92 mm.
Thickness of splice bar	12.7 mm.



UNIVERSITY OF CALIFORNIA

Rail Section No. 43

35 pounds per yard 55.0 gross tons per mile
17.4 kg. per meter 34.72 tonnes per kilometer

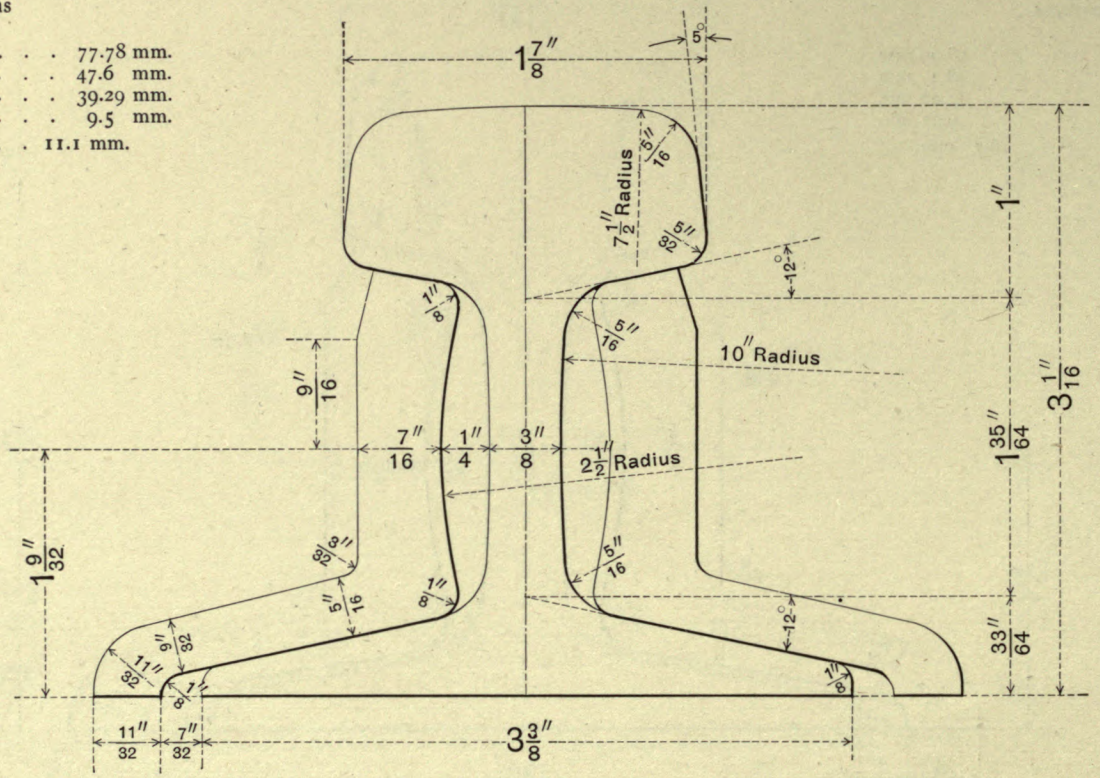
Angle Splice-plate Section No. 44

4.3 pounds per foot 6.40 kg. per meter

Metric Dimensions

Rail

Height	77.78 mm.
Width of head	47.6 mm.
Height of web	39.29 mm.
Thickness of web	9.5 mm.
Thickness of splice bar	11.1 mm.



Rail Section No. 44

30 pounds per yard 47.14 gross tons per mile
14.9 kg. per meter 29.76 tonnes per kilometer

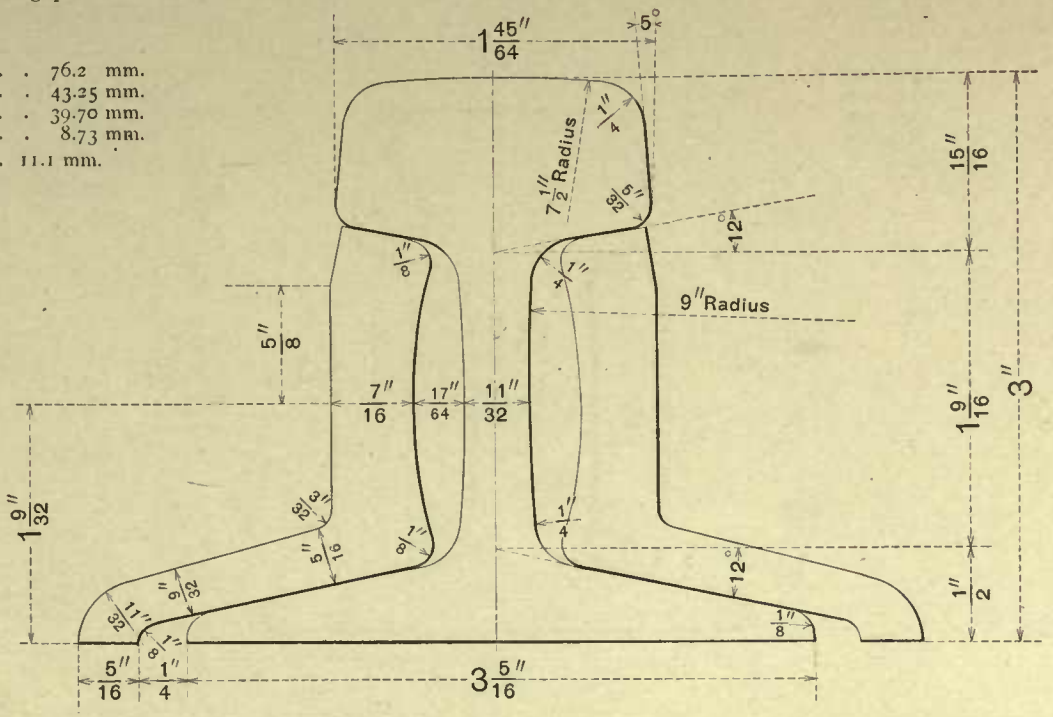
Angle Splice-plate Section No. 44

4.3 pounds per foot 6.40 kg. per meter

Metric Dimensions

Rail

Height	76.2 mm.
Width of head	43.25 mm.
Height of web	39.70 mm.
Thickness of web	8.73 mm.
Thickness of splice rail	11.1 mm.



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Rail Section No. 45

25 pounds per yard 39.29 gross tons per mile
12.4 kg. per meter 24.80 tonnes per kilometer

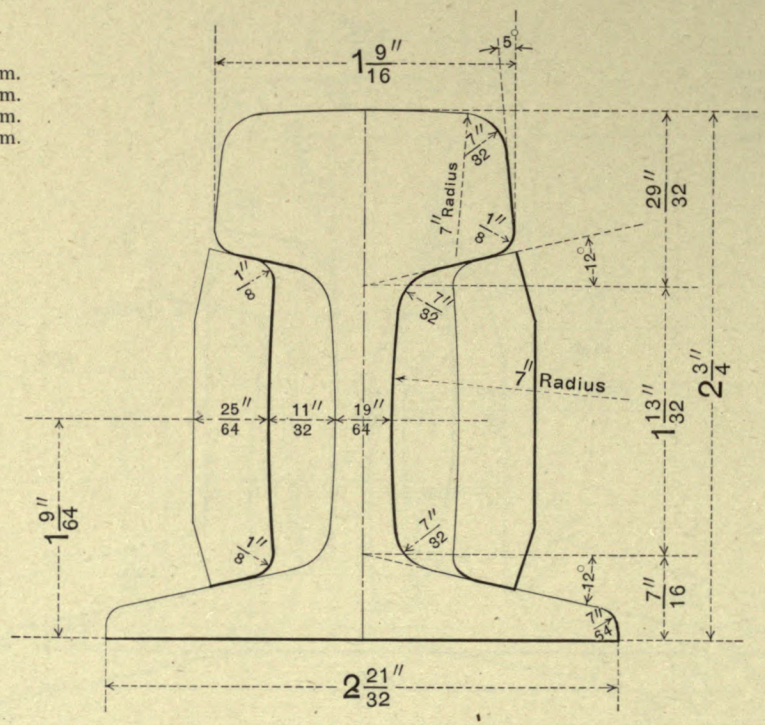
Plain Splice-plate Section No. 45

2.1 pounds per foot 3.14 kg. per meter

Metric Dimensions

Rail

Height	69.85 mm.
Width of head	39.7 mm.
Height of web	35.71 mm.
Thickness of web	7.54 mm.
Thickness of splice bar	9.92 mm.



Rail Section No. 47

20 pounds per yard 31.43 gross tons per mile
9.9 kg. per meter 19.84 tonnes per kilometer

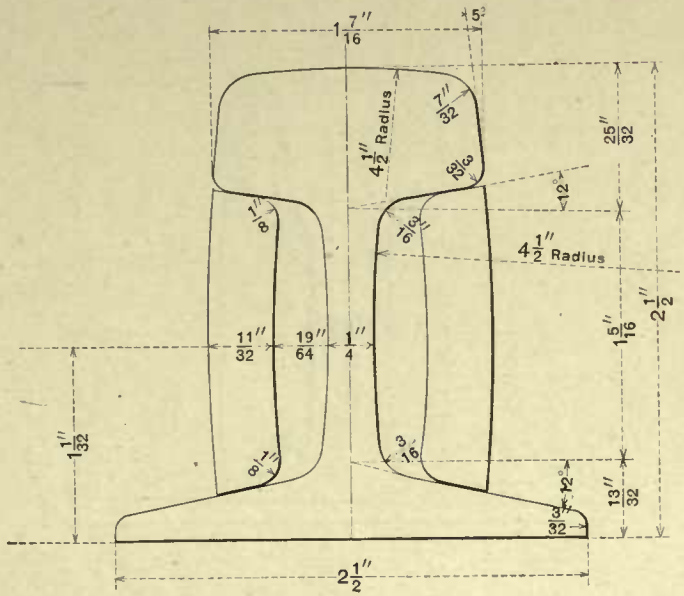
Plain Splice-plate Section No. 47

1.8 pounds per foot 2.68 kg. per meter

Metric Dimensions

Rail

Height	63.50 mm.
Width of head	36.5 mm.
Height of web	33.3 mm.
Thickness of web	6.35 mm.
Thickness of splice bar	8.73 mm.



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Rail Section No. 48

16 pounds per yard 25.14 gross tons per mile
7.9 kg. per meter 15.87 tonnes per kilometer

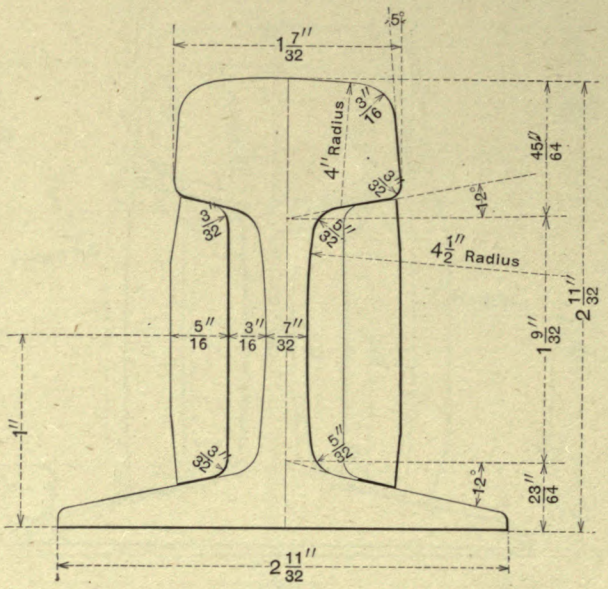
Plain Splice-plate Section No. 48

1.4 pounds per foot 2.09 kg. per meter

Metric Dimensions

Rail

Height	59.53 mm.
Width of head	30.93 mm.
Height of web	32.54 mm.
Thickness of web	5.53 mm.
Thickness of splice bar	7.94 mm.



Rail Section No. 66

12 pounds per yard 18.86 gross tons per mile
5.95 kg. per meter 11.90 tonnes per kilometer

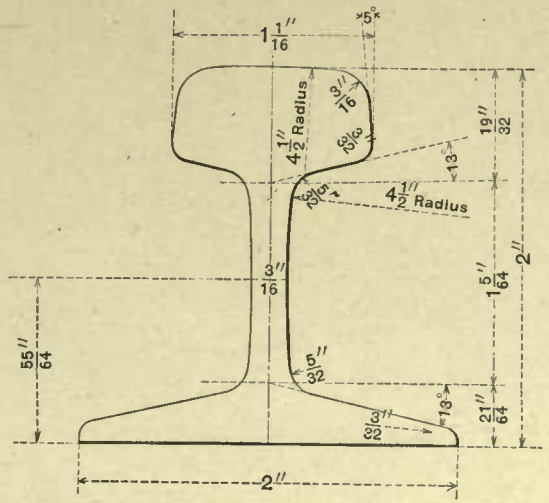
We supply 1¼ x ¼ rd. edge flats for joint plates with this section.

1.95 pounds per foot 1.42 kg. per meter

Metric Dimensions

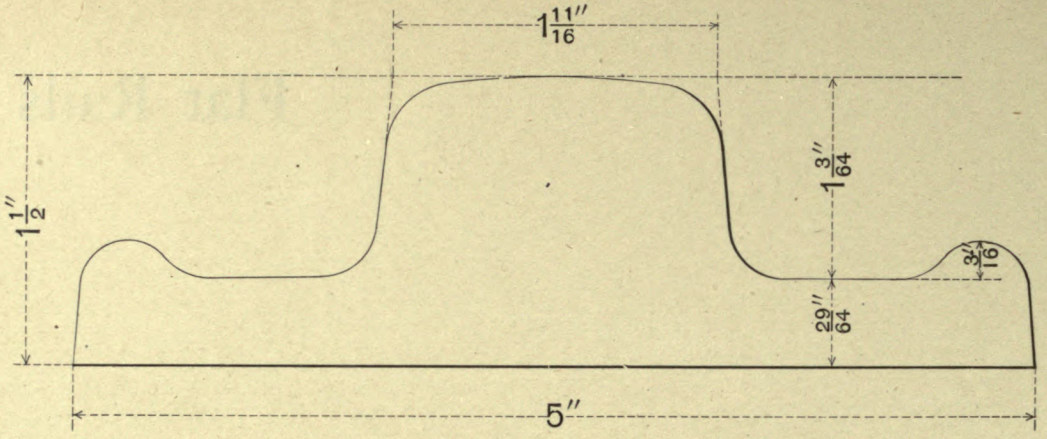
Rail

Height	50.8 mm.
Width of head	26.98 mm.
Height of web	27.3 mm.
Thickness of web	4.76 mm.



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Flat Rails



Rail Section No. 13

Rail Section No. 13

42 pounds per yard

20.8 kg. per meter

66.0 gross tons per mile

41.65 tonnes per kilometer

Metric Dimensions

Height	38.1 mm.
Width of head	42.9 mm.
Width of base	127.0 mm.
Thickness of base	11.5 mm.

Rail Section No. 14

47 pounds per yard

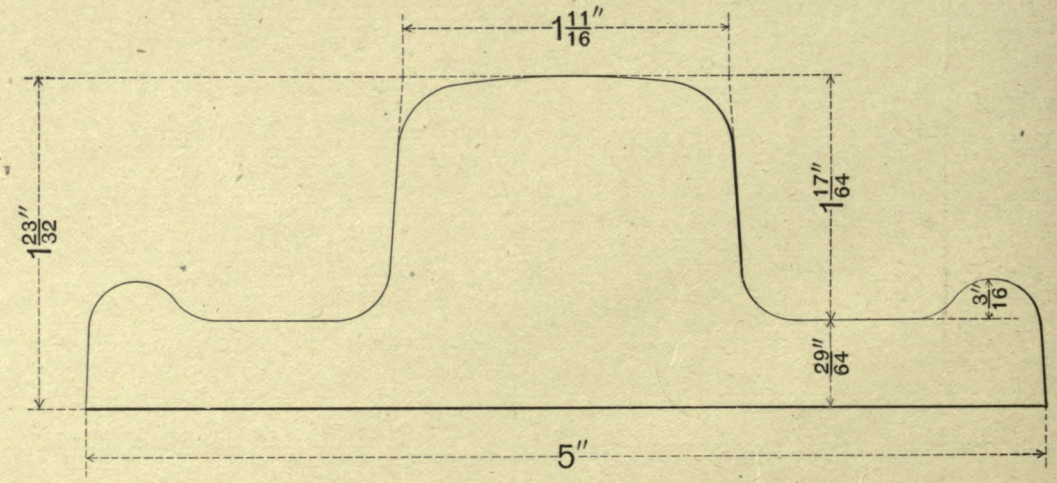
23.3 kg. per meter

73.86 gross tons per mile

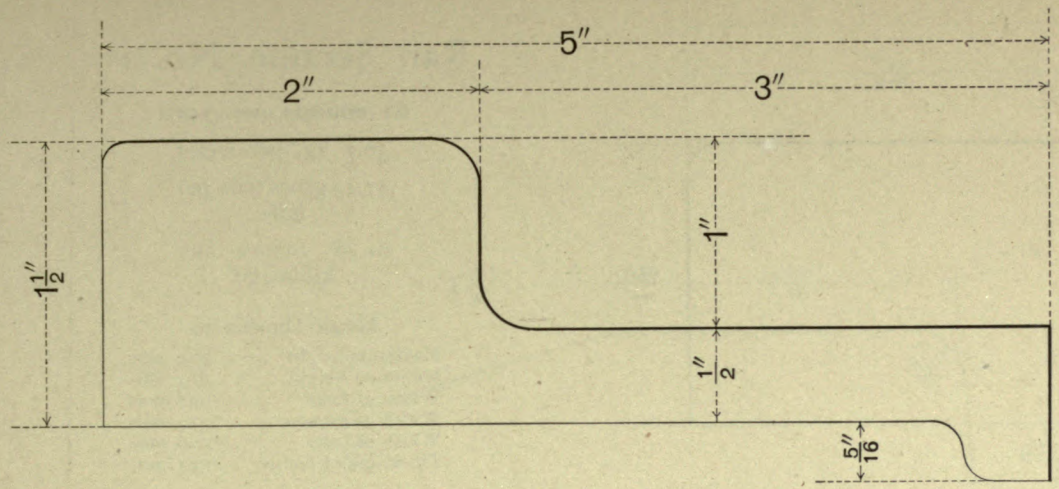
46.60 tonnes per kilometer

Metric Dimensions

Height	43.7 mm.
Width of head	42.9 mm.
Width of base	127.0 mm.
Thickness of base	11.5 mm.



Rail Section No. 14



Rail Section No. 17

Rail Section No. 17

47.0 pounds per yard

23.3 kg. per meter

73.86 gross tons per mile

46.60 tonnes per kilometer

Metric Dimensions

Height	38.1 mm.
Width of head	50.8 mm.
Width of tram	76.2 mm.
Thickness of base	12.7 mm.

Rail Section No. 15

60 pounds per yard

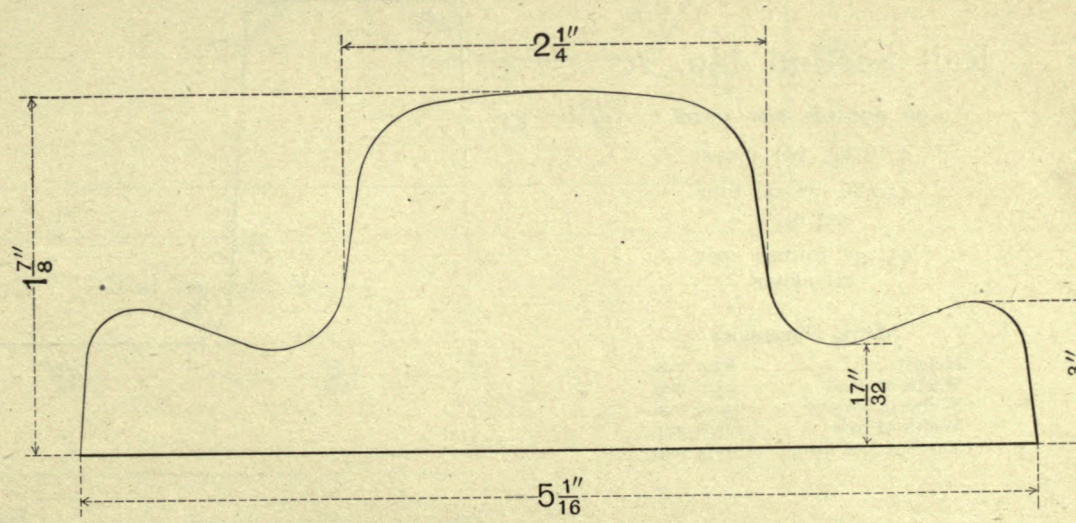
29.8 kg. per meter

94.29 gross tons per mile

59.53 tonnes per kilometer

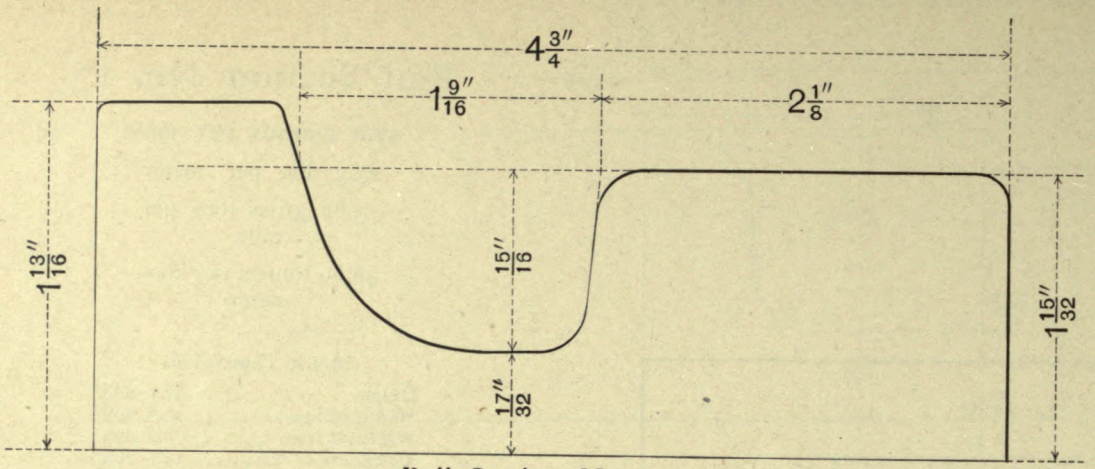
Metric Dimensions

Height	47.6 mm.
Width of head	57.1 mm.
Width of base	128.6 mm.
Maximum thickness of flange,	19.0 mm.
Minimum thickness of flange,	13.5 mm.



Rail Section No. 15

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Rail Section No. 19

Rail Section No. 19

62 pounds per yard

30.7 kg. per meter

97.43 gross tons per mile

61.48 tonnes per kilometer

Metric Dimensions

Maximum height	46.0 mm.
Minimum height	37.3 mm.
Width of head	54.0 mm.
Width of groove	39.7 mm.
Width of base	120.6 mm.
Thickness of flange	13.5 mm

Rail Section No. 20

96 pounds per yard

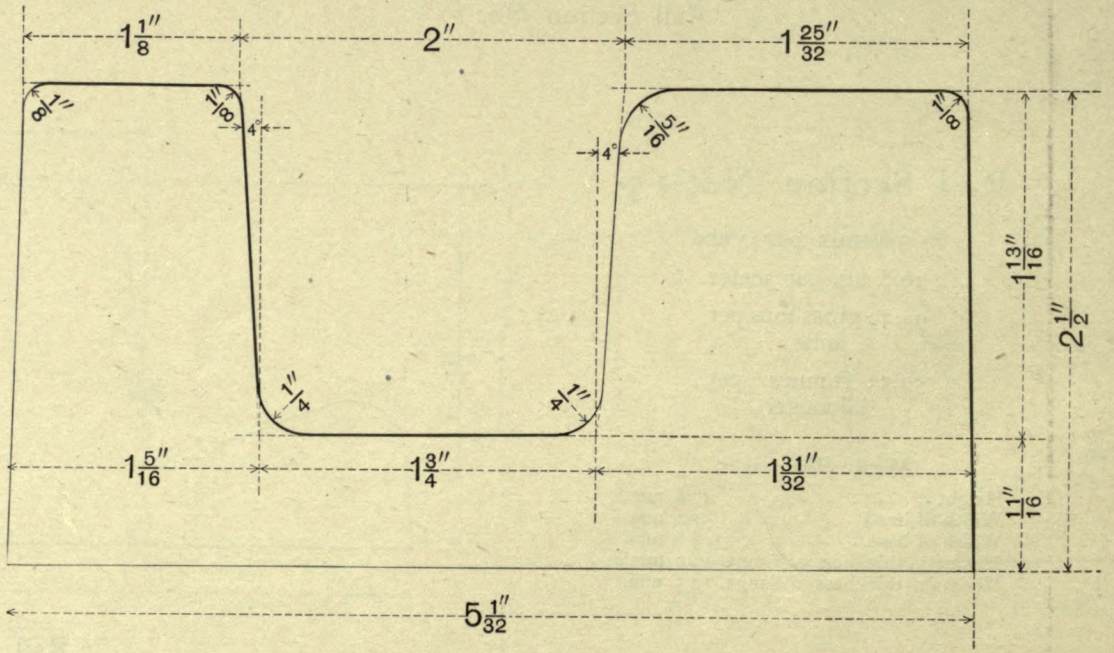
47.6 kg. per meter

150.86 gross tons per mile

95.23 tonnes per kilometer

Metric Dimensions

Height	63.5 mm.
Width of head	45.2 mm.
Width of groove	50.8 mm.
Width of base	127.8 mm.
Thickness of flange	17.5 mm.



Rail Section No. 20

Rail Section No. 95

97 pounds per yard

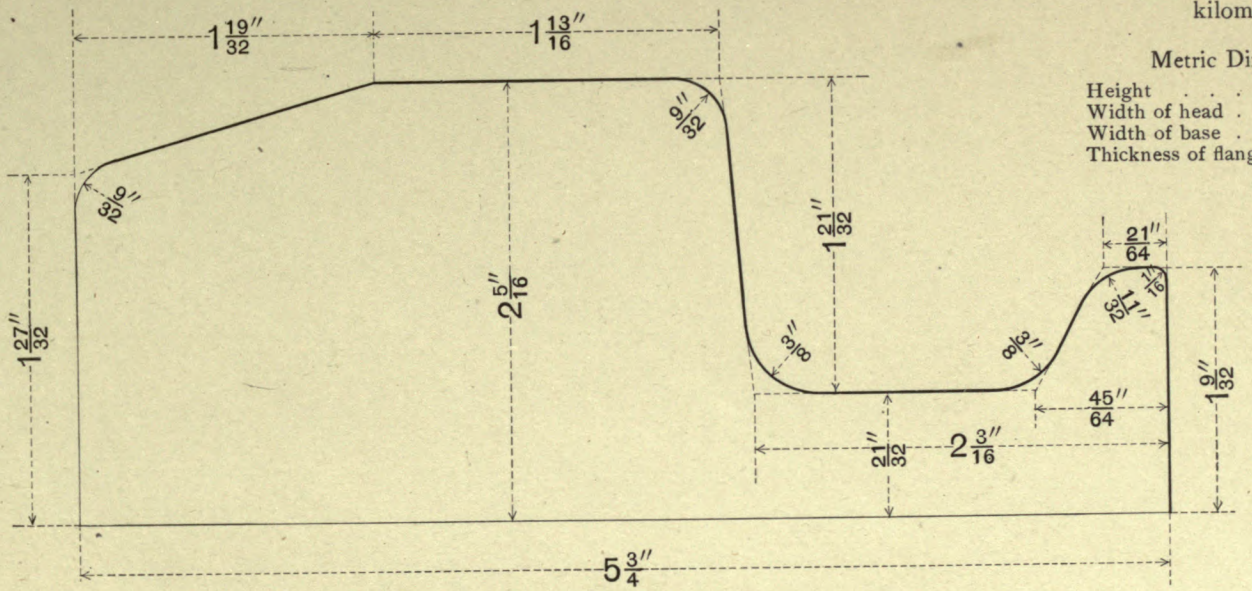
48.1 kg. per meter

152.43 gross tons per mile

96.22 tonnes per kilometer

Metric Dimensions

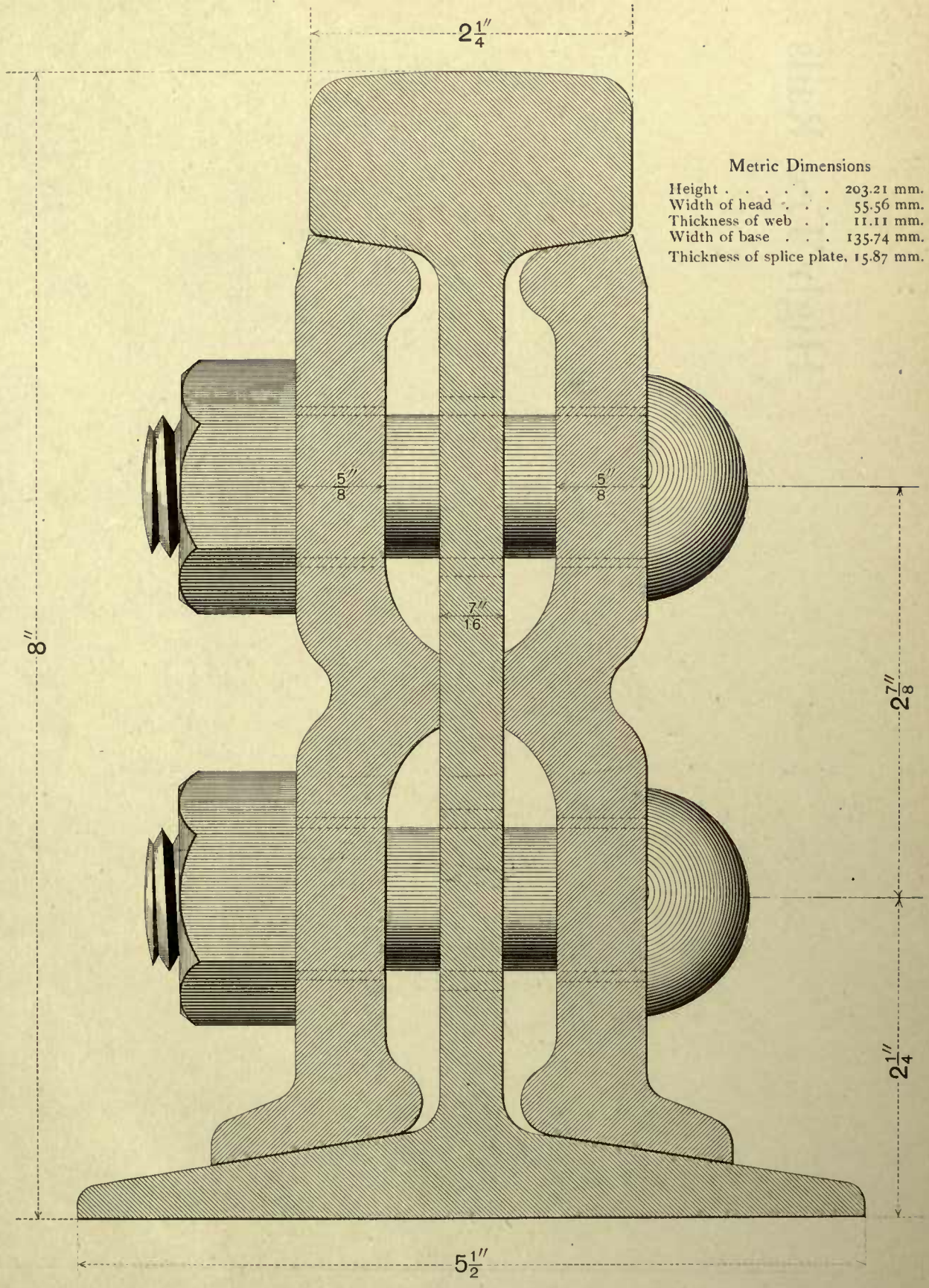
Height	58.7 mm.
Width of head	46.0 mm.
Width of base	146.0 mm.
Thickness of flange	16.7 mm.



Rail Section No. 95

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High Tee Rails



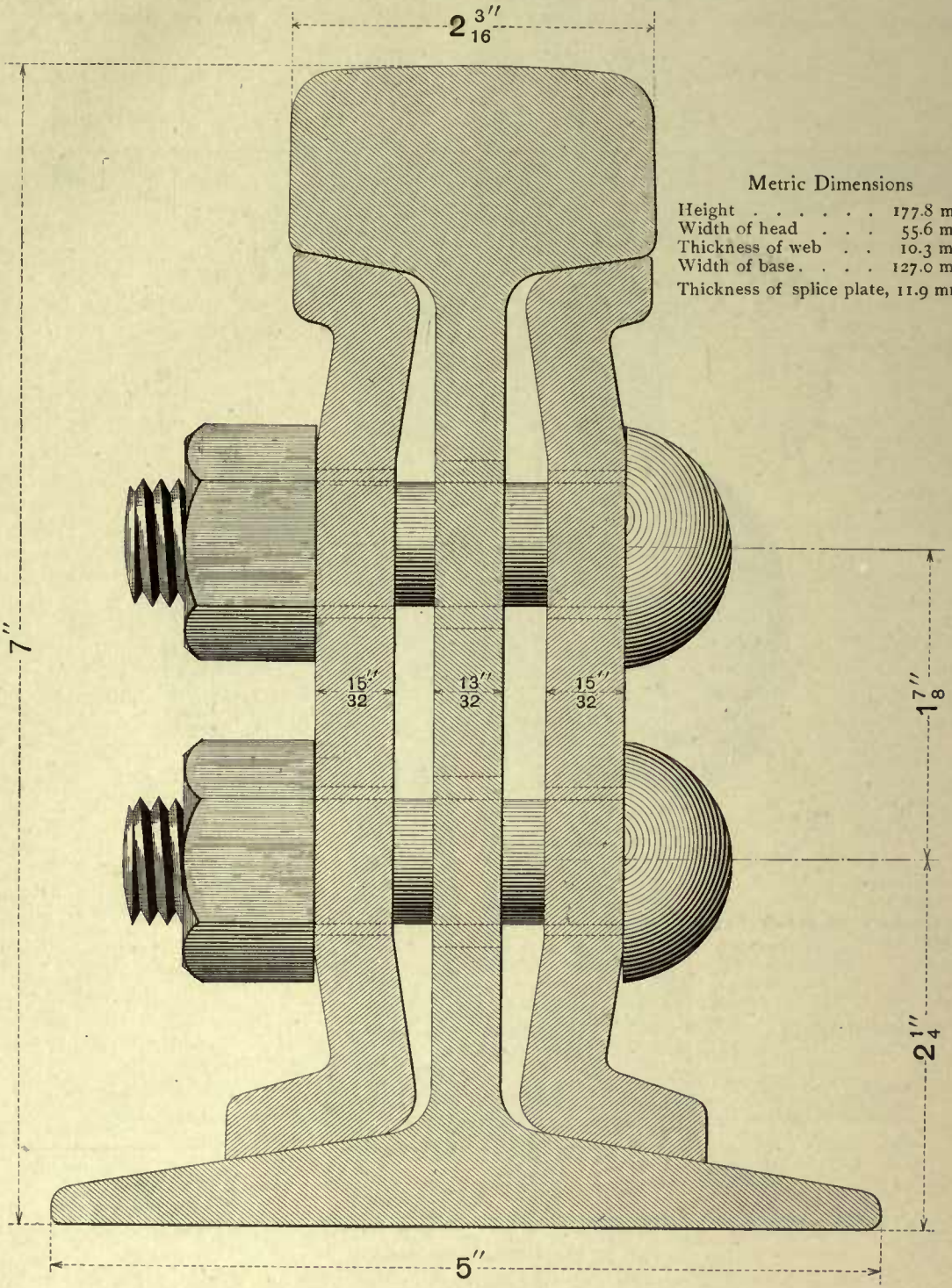
Metric Dimensions

Height	203.21 mm.
Width of head	55.56 mm.
Thickness of web	11.11 mm.
Width of base	135.74 mm.
Thickness of splice plate,	15.87 mm.

Rail Section No. 271

79 pounds per yard 39.18 kg. per meter 124.16 gross tons per mile 78.37 tonnes per kilometer

Channel splice-plate section No. 271



Metric Dimensions

Height	177.8 mm.
Width of head	55.6 mm.
Thickness of web	10.3 mm.
Width of base	127.0 mm.

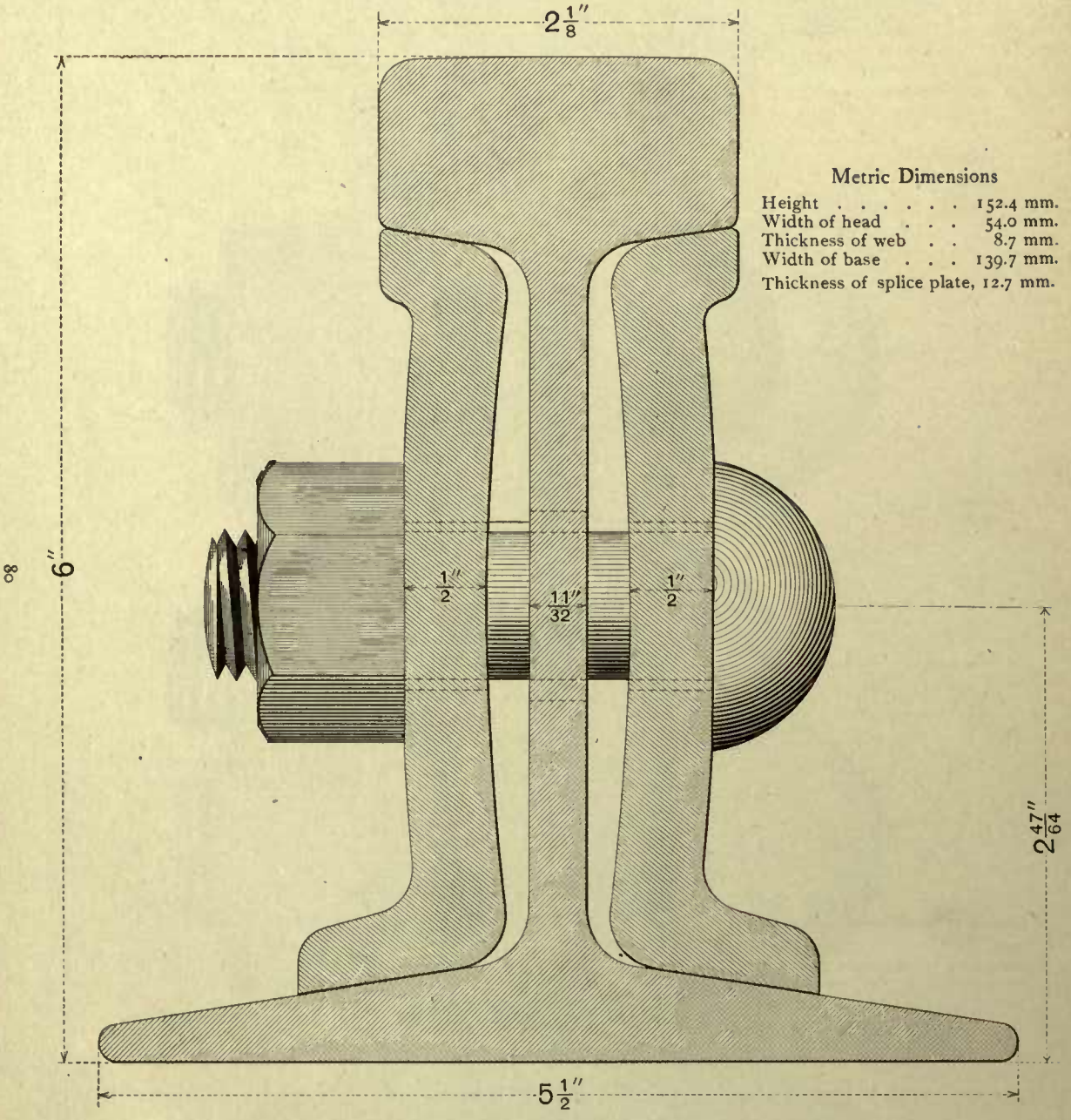
Thickness of splice plate, 11.9 mm.

Rail Section No. 206

70 pounds per yard 34.7 kilos per meter 110 gross tons per mile 69.45 tonnes per kilometer

Channel splice-plate section No. 206

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Metric Dimensions

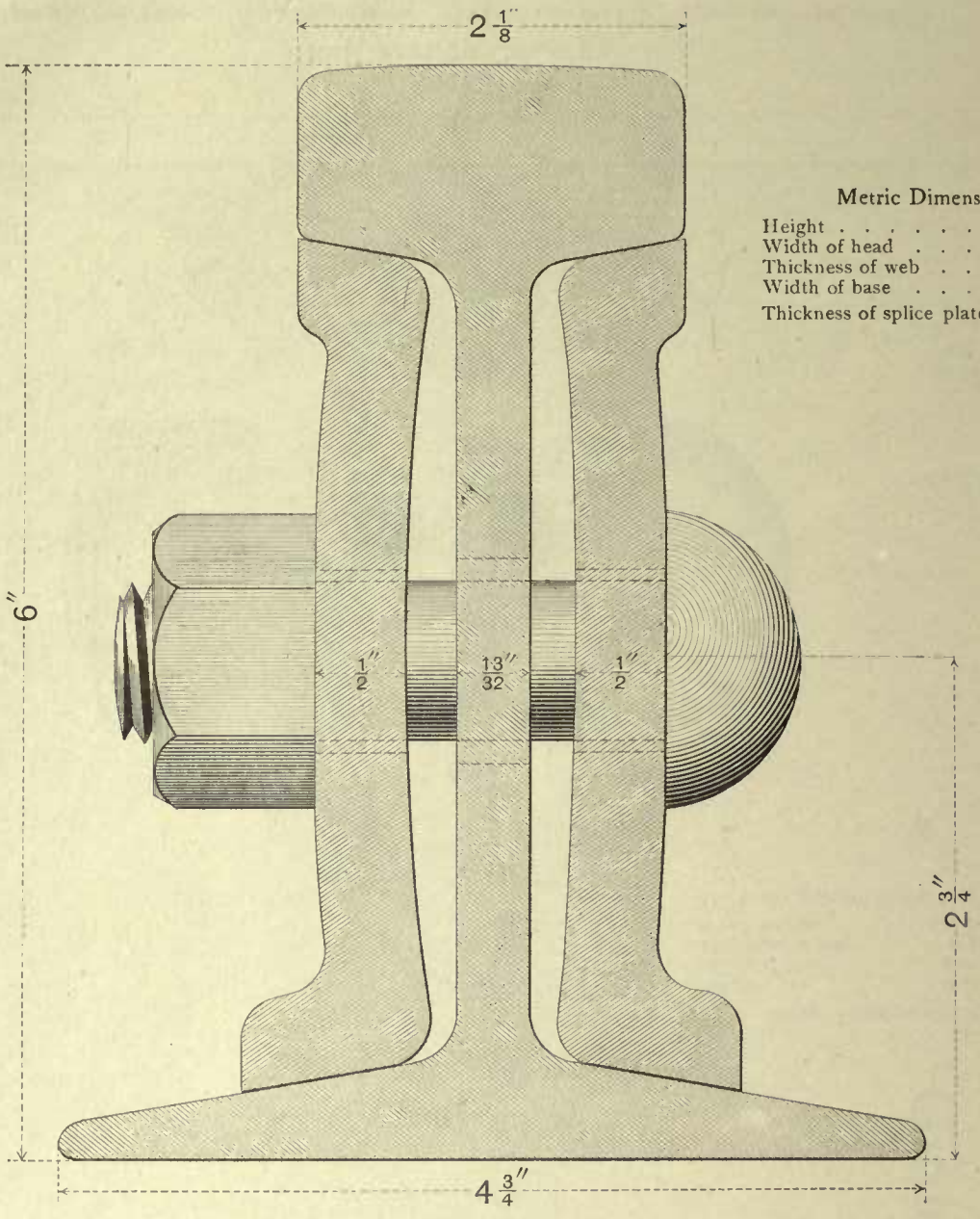
Height	152.4 mm.
Width of head	54.0 mm.
Thickness of web	8.7 mm.
Width of base	139.7 mm.

Thickness of splice plate, 12.7 mm.

Rail Section No. 242

62 pounds per yard 30.7 kilos per meter 97.43 gross tons per mile 61.47 tonnes per kilometer

Channel splice-plate section No. 242



Metric Dimensions

Height	152.4 mm.
Width of head	54.0 mm.
Thickness of web	10.3 mm.
Width of base	120.6 mm.

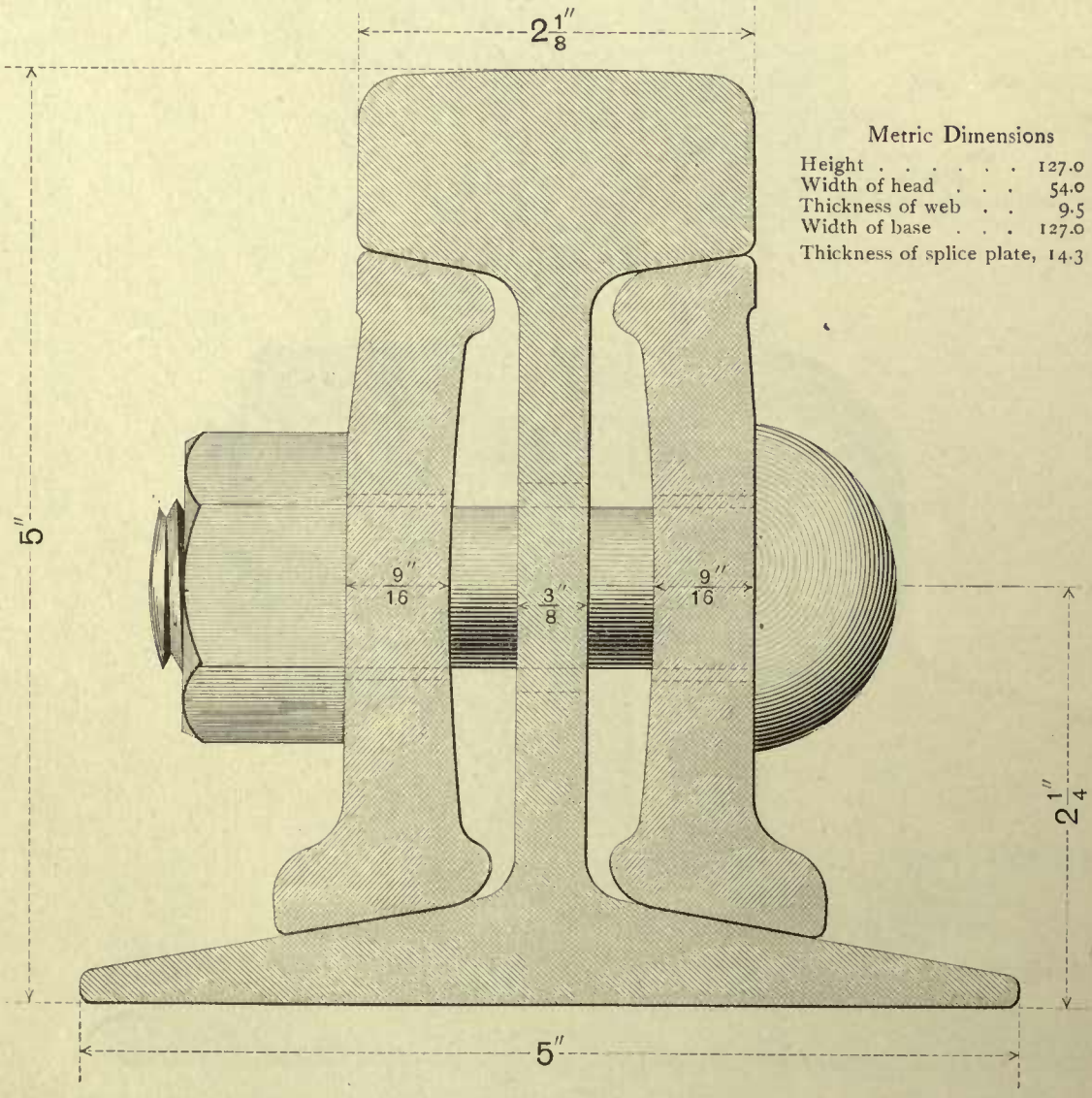
Thickness of splice plate, 12.7 mm.

Rail Section No. 209

60 pounds per yard 29.8 kilos per meter 94.29 gross tons per mile 59.53 tonnes per kilometer

Channel splice-plate section No. 209

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Metric Dimensions

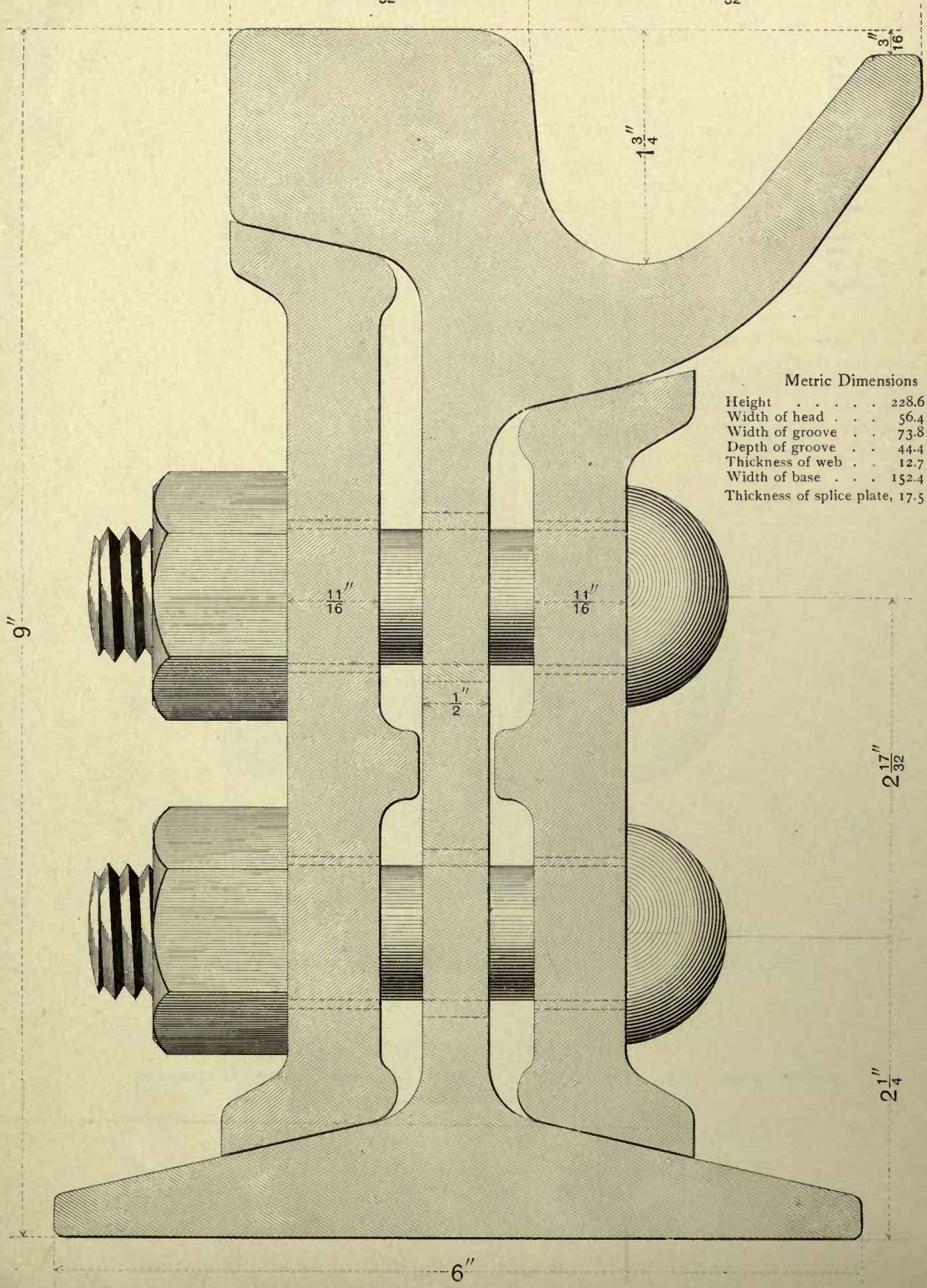
Height	127.0 mm.
Width of head	54.0 mm.
Thickness of web	9.5 mm.
Width of base	127.0 mm.
Thickness of splice plate,	14.3 mm.

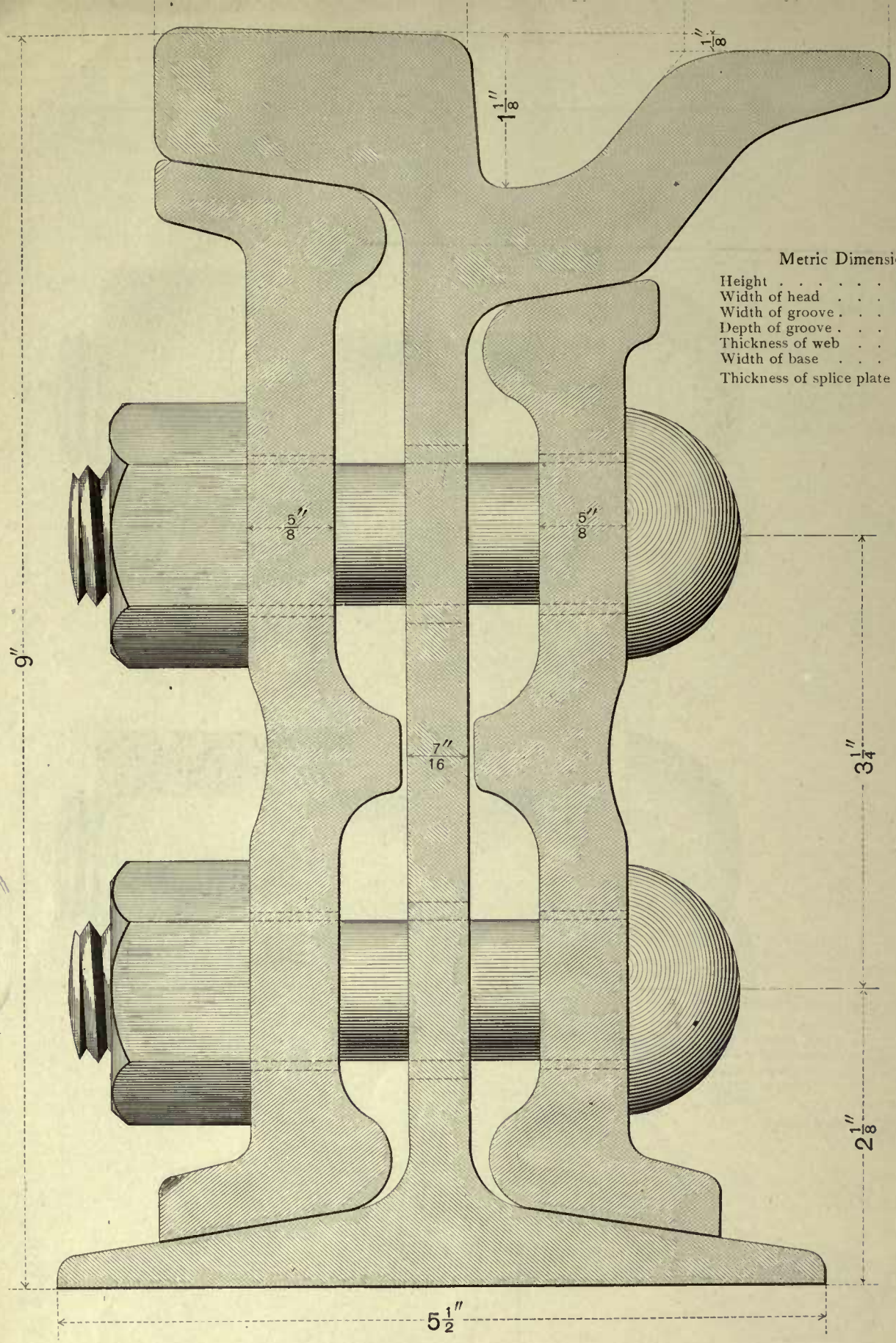
Rail Section No. 253

56 pounds per yard 27.8 kilos per meter 88 gross tons per mile 55.53 tonnes per kilometer

Channel splice-plate section No. 253

Girder Rails


Metric Dimensions
Height . . . . . 228.6 mm.
Width of head . . . 56.4 mm.
Width of groove . . 73.8 mm.
Depth of groove . . 44.4 mm.
Thickness of web . . 12.7 mm.
Width of base . . . 152.4 mm.
Thickness of splice plate, 17.5 mm.
9″
6″
1 3/4″
3/16″
11/16″
11/16″
1/2″
2 17/32″
2 1/4″

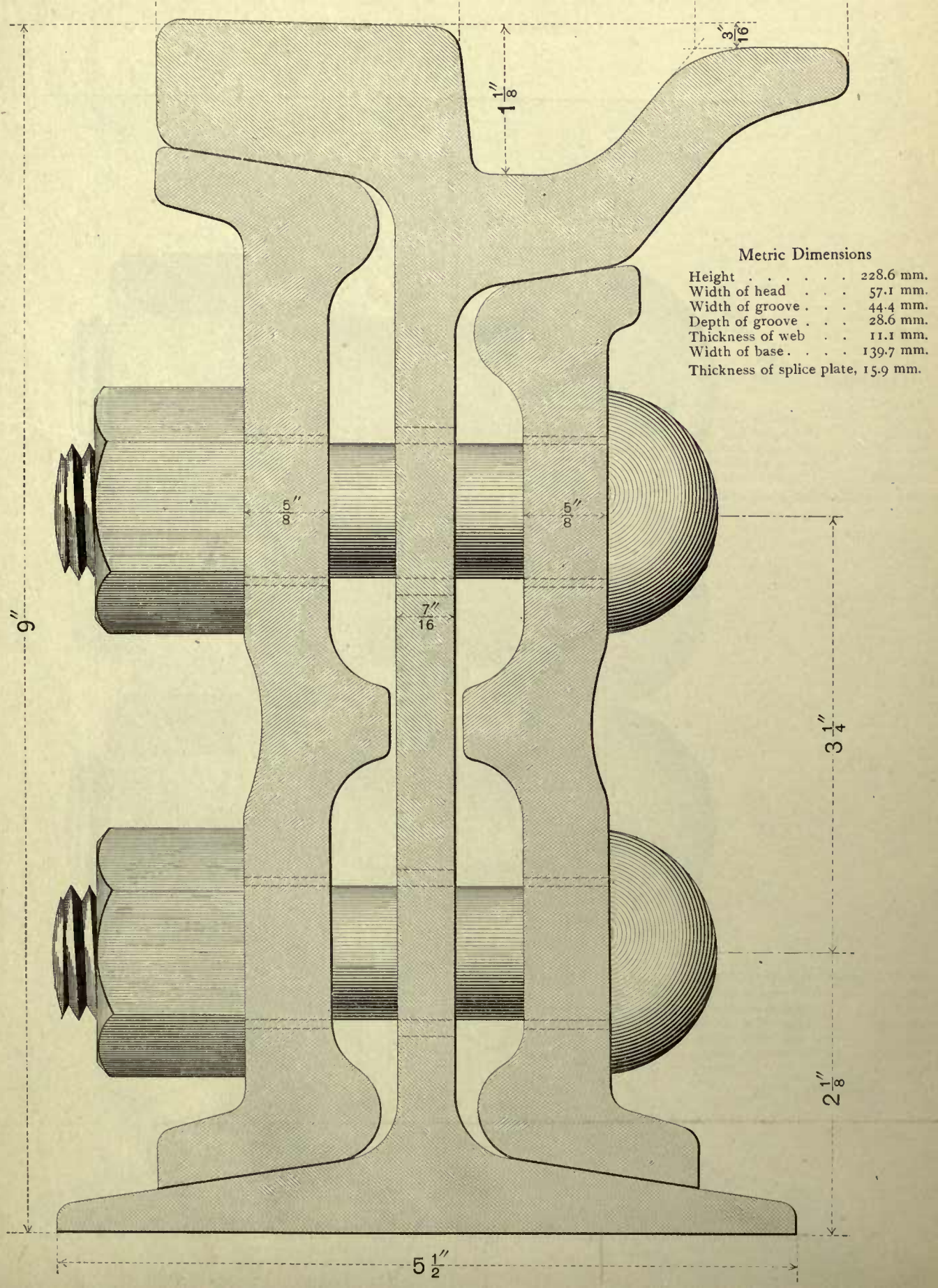


Metric Dimensions

Height	228.6 mm.
Width of head	57.1 mm.
Width of groove	39.3 mm.
Depth of groove	28.6 mm.
Thickness of web	11.1 mm.
Width of base	139.7 mm.
Thickness of splice plate	15.9 mm.

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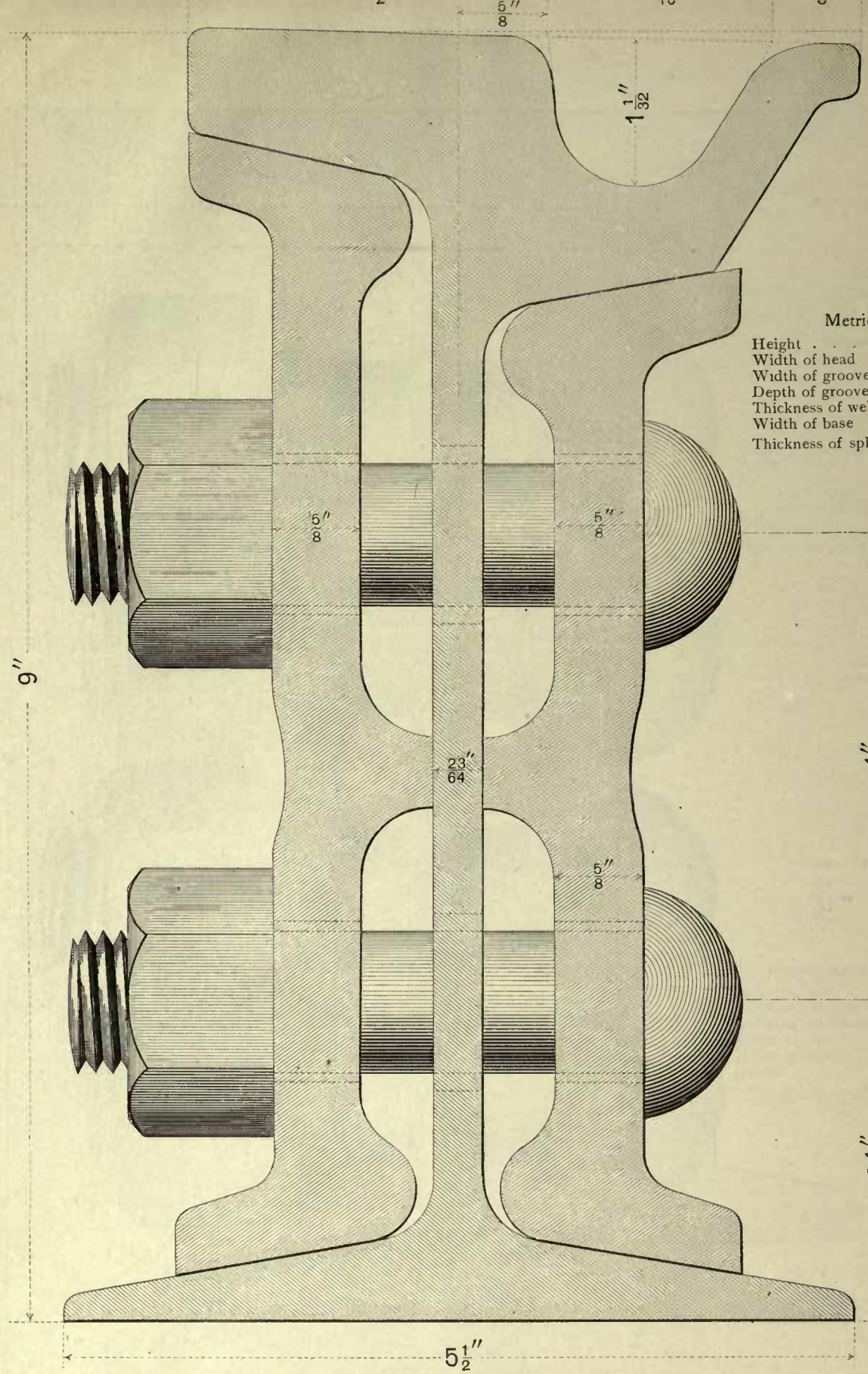
Rail Section No. 8



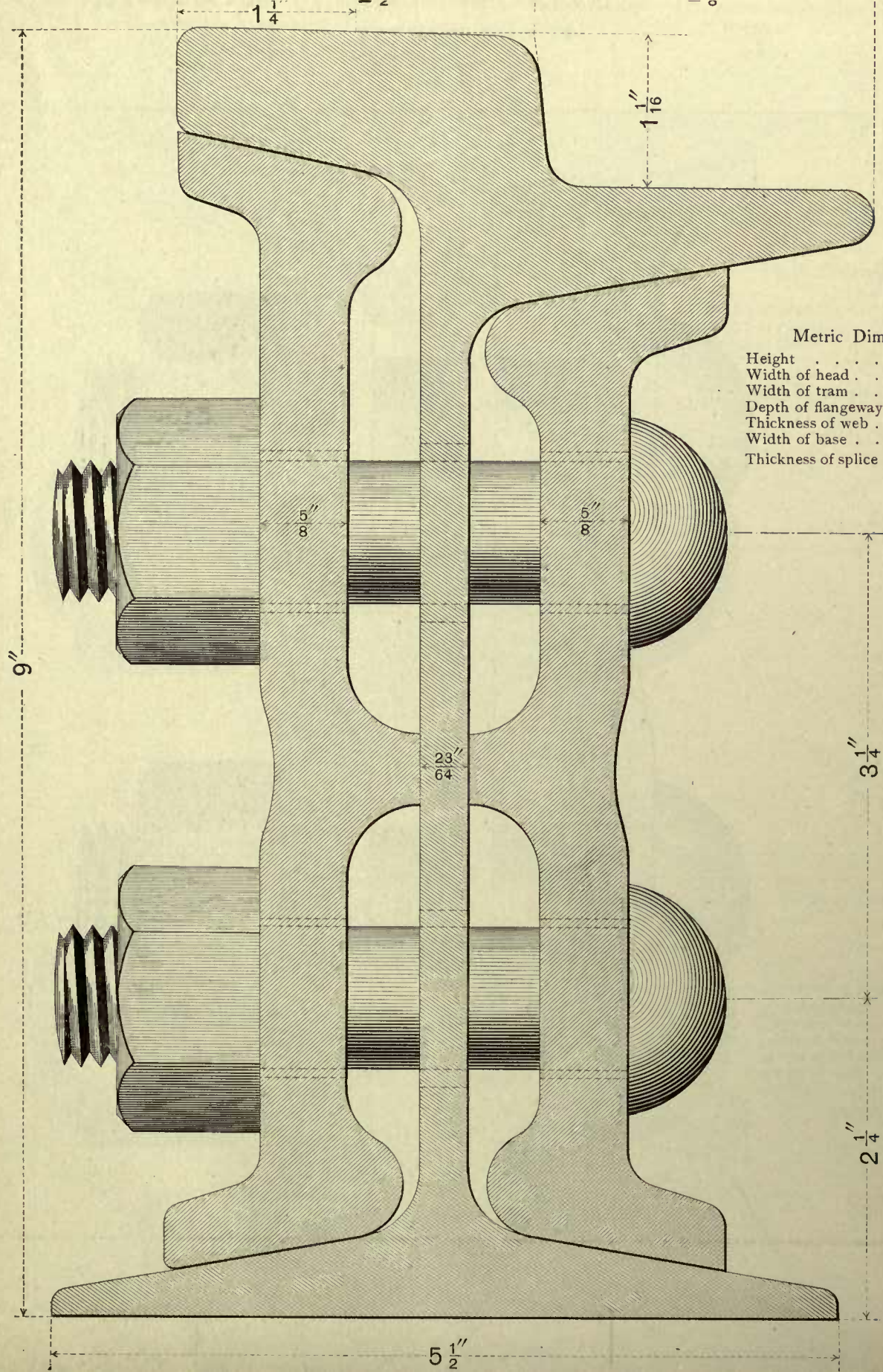
Metric Dimensions

Height	228.6 mm.
Width of head	57.1 mm.
Width of groove	44.4 mm.
Depth of groove	28.6 mm.
Thickness of web	11.1 mm.
Width of base	139.7 mm.

Thickness of splice plate, 15.9 mm.



Rail Section, No. 24.

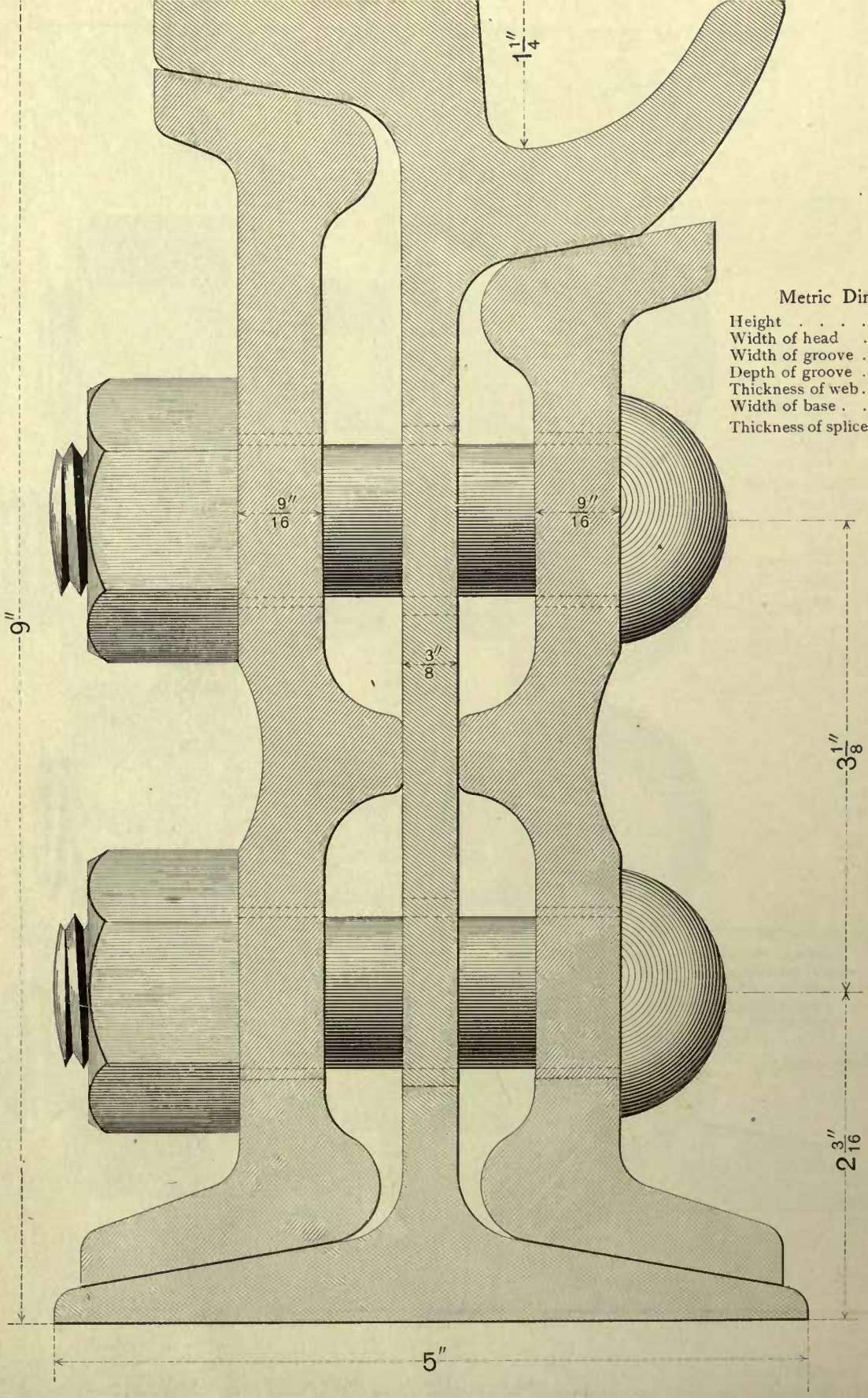


Metric Dimensions

Height	228.6 mm.
Width of head	63.5 mm.
Width of tram	60.3 mm.
Depth of flangeway	27.0 mm.
Thickness of web	9.1 mm.
Width of base	139.7 mm.

Thickness of splice plate, 159 mm.

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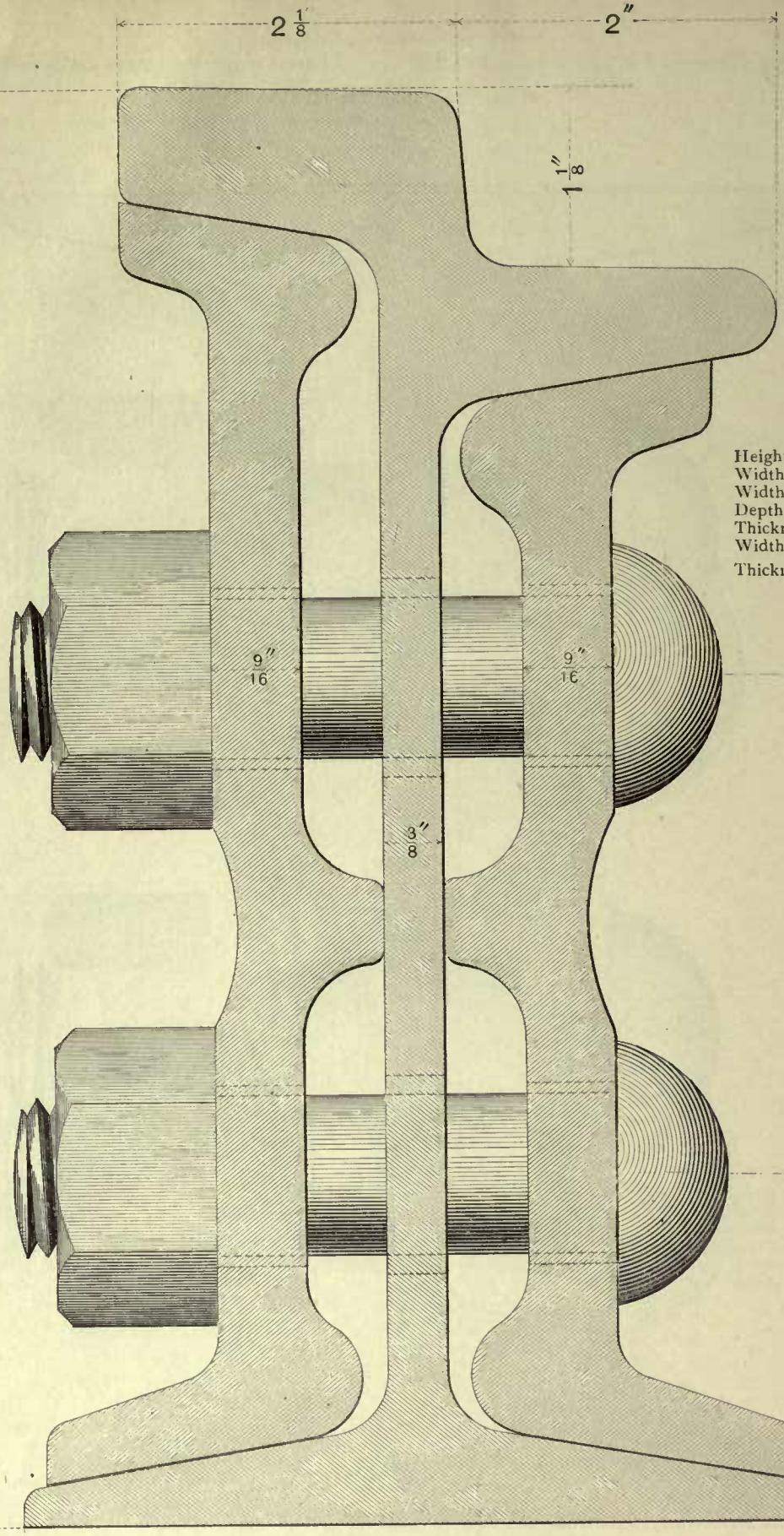
Metric Dimensions

Height	228.6 mm.
Width of head	54.0 mm.
Width of groove	40.5 mm.
Depth of groove	31.7 mm.
Thickness of web	9.5 mm.
Width of base	127.0 mm.

Thickness of splice plate, 14.3 mm.

Rail Section No. 240

87 pounds per yard 43.1 kilos per meter 136.71 gross tons per mile 86.30 tonnes per kilometer

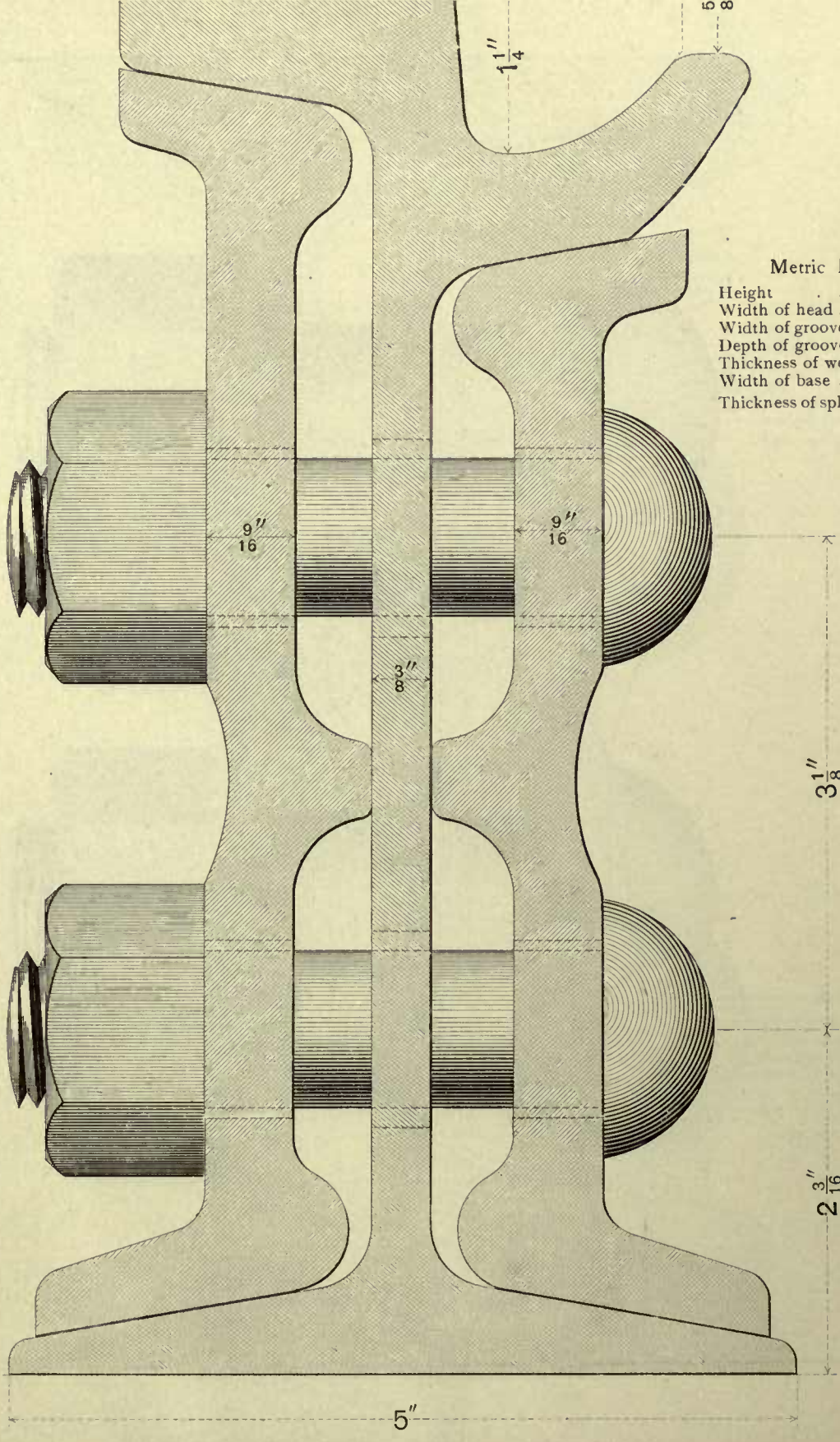


Metric Dimensions

Height	228.6 mm.
Width of head . . .	54.0 mm.
Width of tram . . .	50.8 mm.
Depth of flangeway .	28.6 mm.
Thickness of web . .	9.5 mm.
Width of base . . .	127.0 mm.

Thickness of splice plate, 14.3 mm.

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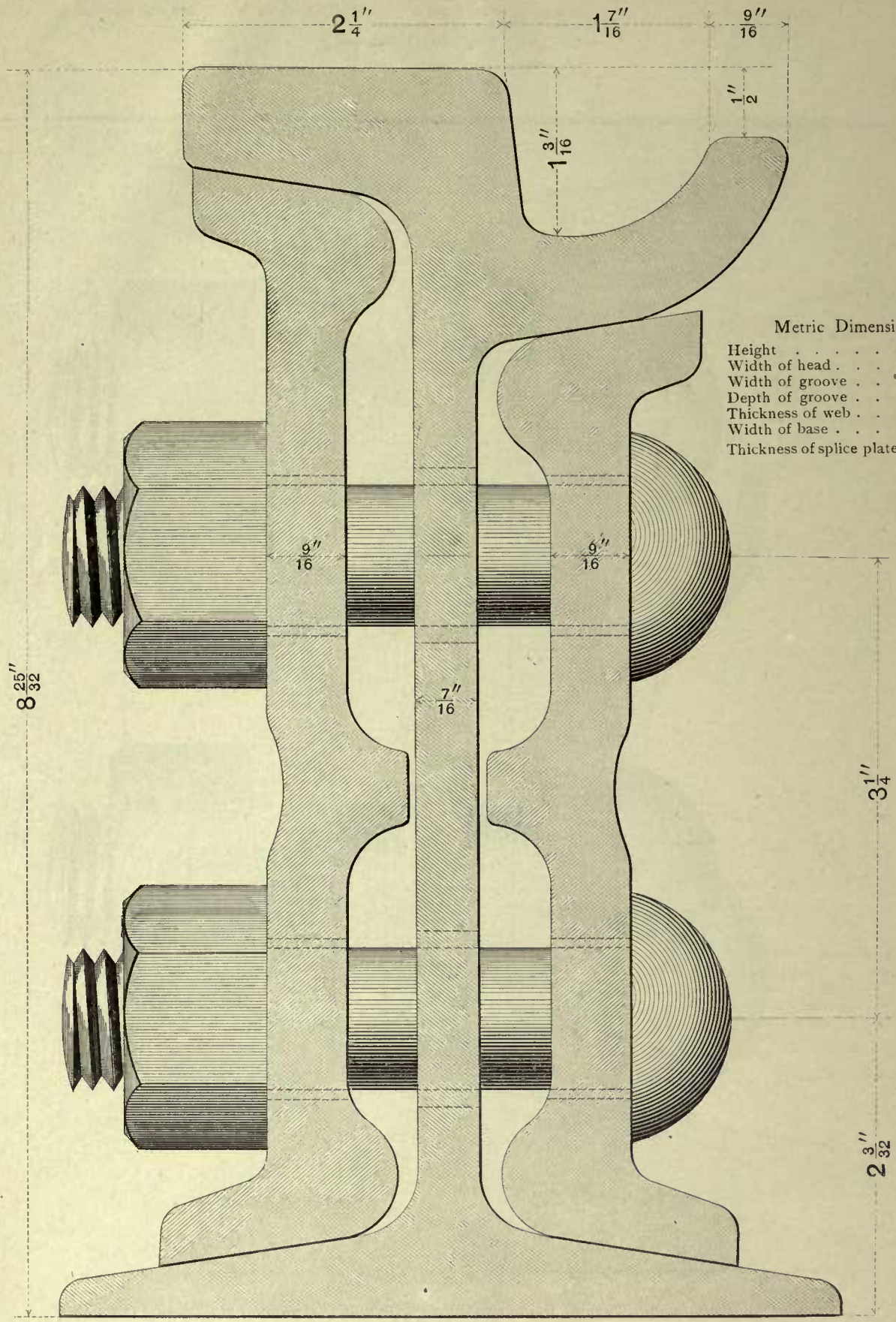
Metric Dimensions

Height	228.6 mm.
Width of head	54.0 mm.
Width of groove	36.5 mm.
Depth of groove	31.7 mm.
Thickness of web	9.5 mm.
Width of base	127.0 mm.

Thickness of splice plate, 14.3 mm.

Rail Section No. 219

85 pounds per yard 42.2 kilos per meter 133.57 gross tons per mile 84.33 tonnes per kilometer

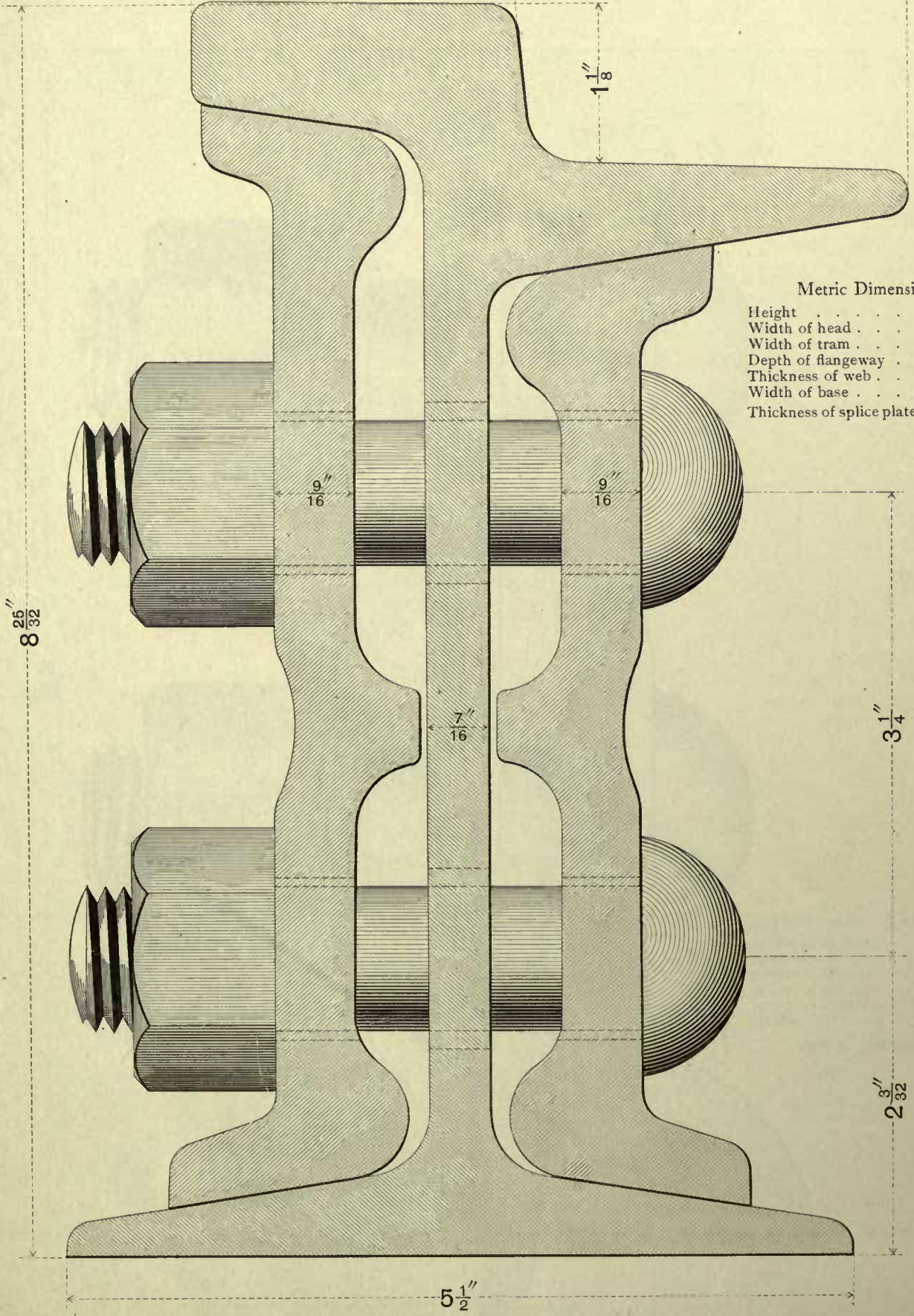


Metric Dimensions

Height	223.0 mm.
Width of head . . .	57.1 mm.
Width of groove . .	36.5 mm.
Depth of groove . .	30.2 mm.
Thickness of web . .	11.1 mm.
Width of base . . .	139.7 mm.

Thickness of splice plate, 14.3 mm.

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Metric Dimensions

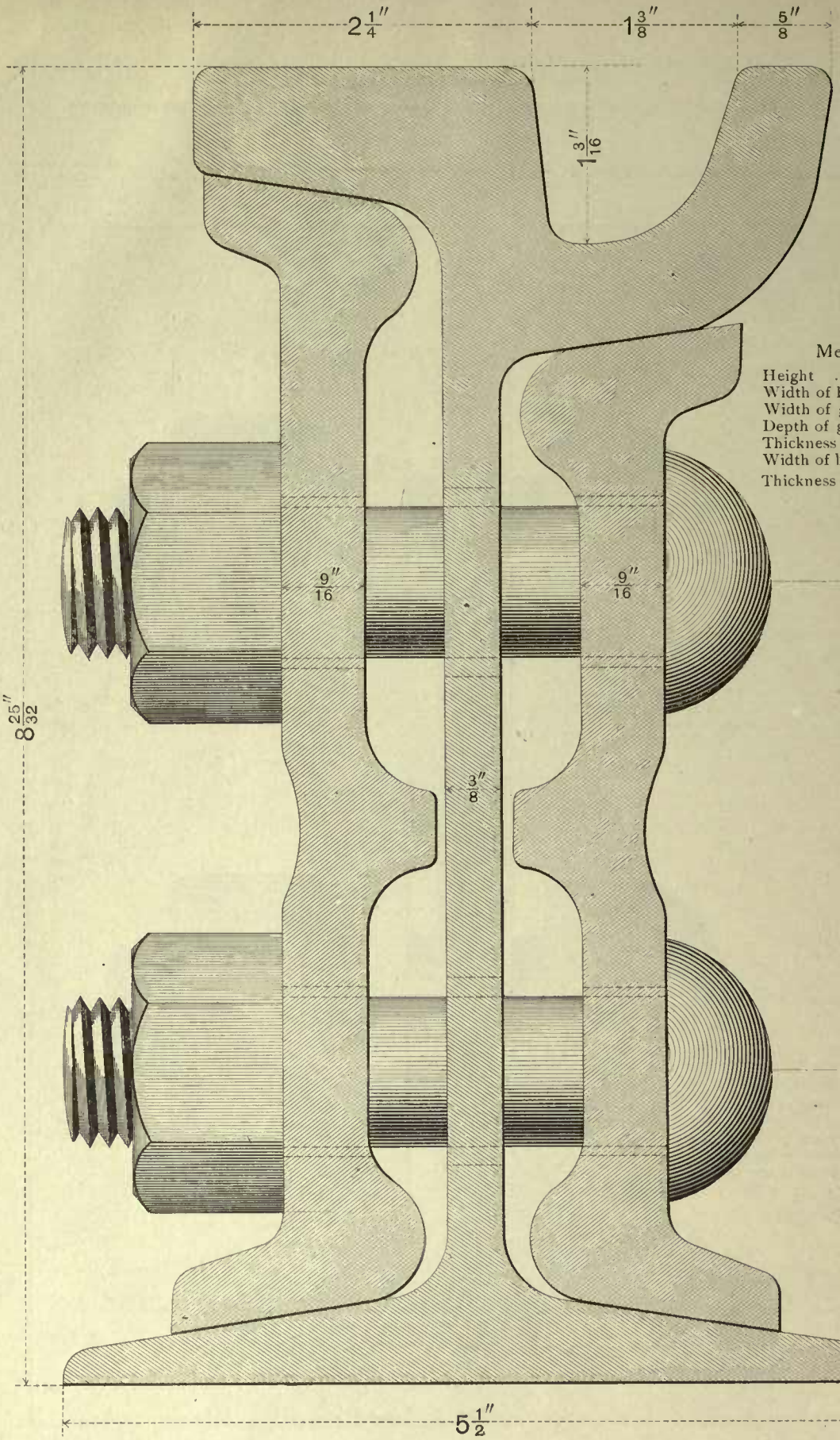
Height	223.0 mm.
Width of head	57.1 mm.
Width of tram	69.8 mm.
Depth of flangeway	28.6 mm.
Thickness of web	11.1 mm.
Width of base	139.7 mm.

Thickness of splice plate, 14.3 mm.

Rail Section No. 223

96 pounds per yard 47.61 kilos per meter 150.86 gross tons per mile 95.25 tonnes per kilometer

Channel splice plate section No. 333



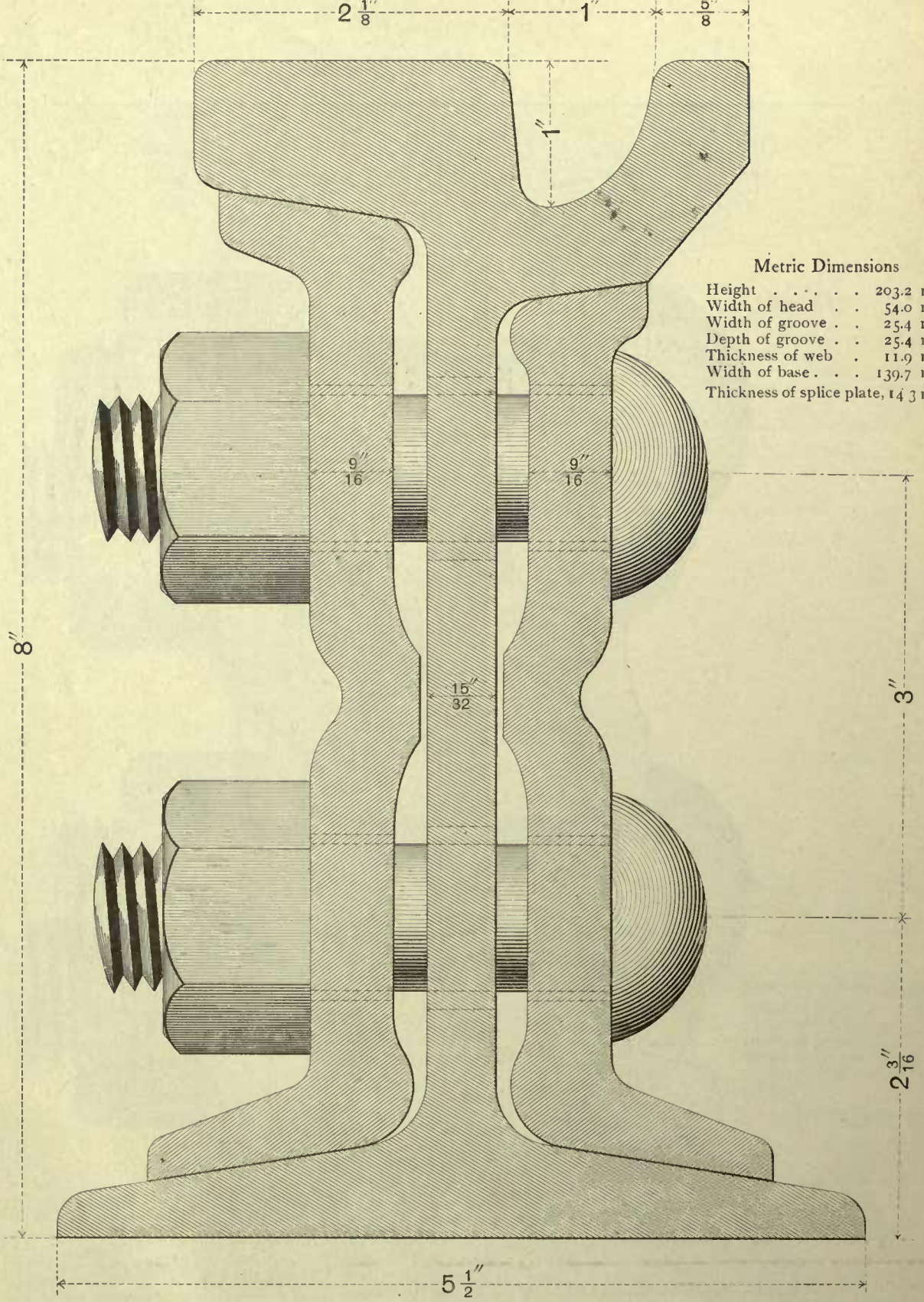
Metric Dimensions

Height	223.0 mm
Width of head	57.1 mm
Width of groove	34.9 mm
Depth of groove	30.2 mm
Thickness of web	9.5 mm
Width of base	139.7 mm

Thickness of splice plate, 14.3 mm.

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Rail Section No. 96



Metric Dimensions

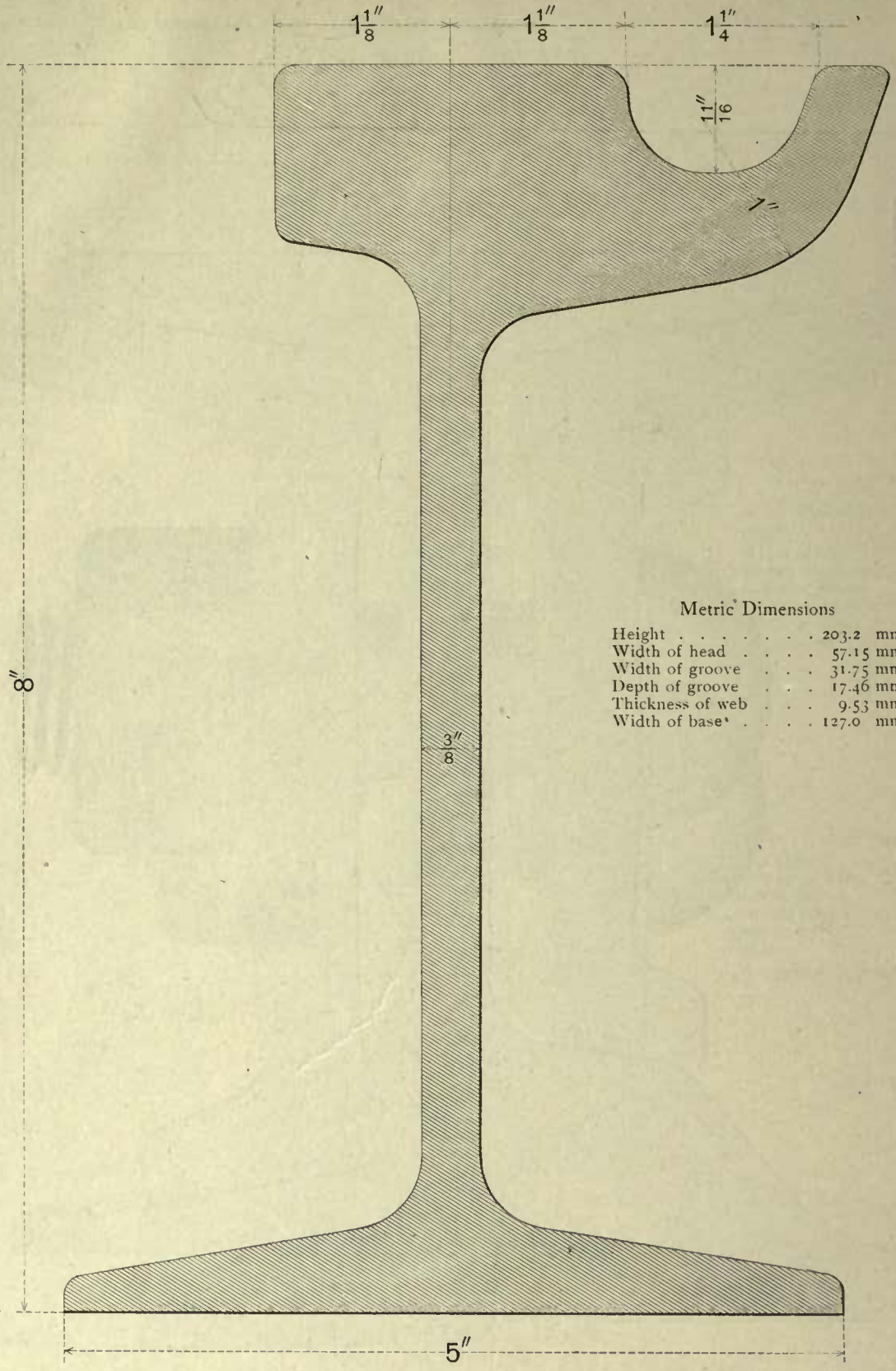
Height	203.2 mm.
Width of head	54.0 mm.
Width of groove	25.4 mm.
Depth of groove	25.4 mm.
Thickness of web	11.9 mm.
Width of base	139.7 mm.

Thickness of splice plate, 14 3 mm.

Rail Section No. 258

95 pounds per yard 47.1 kilos per meter 149.29 gross tons per mile 94.25 tonnes per kilometer

Channel splice-plate section No. 258



Metric Dimensions

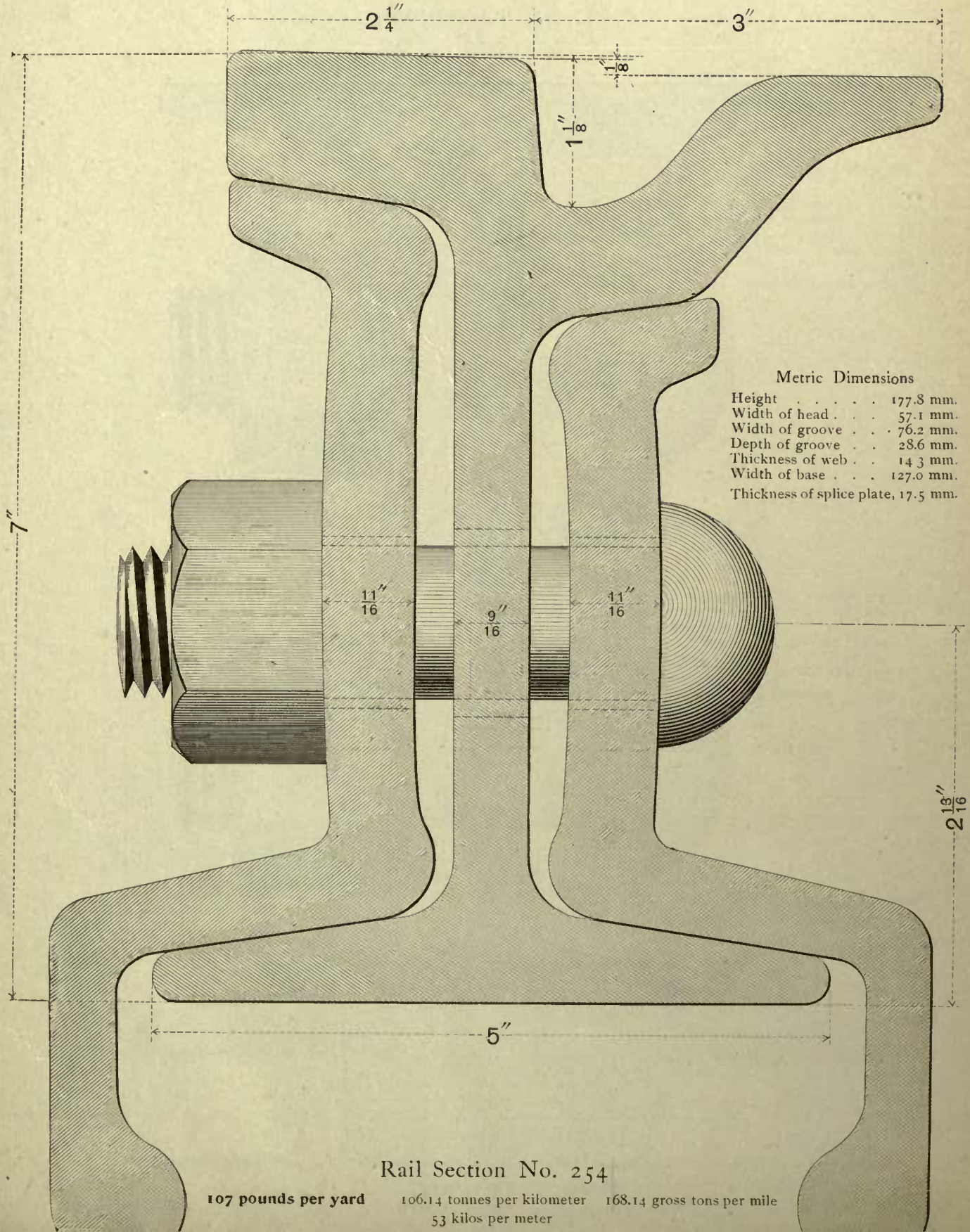
Height	203.2 mm.
Width of head	57.15 mm.
Width of groove	31.75 mm.
Depth of groove	17.46 mm.
Thickness of web	9.53 mm.
Width of base	127.0 mm.

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Rail Section No. 259

90 pounds per yard 44.6 kg. per meter 141.43 gross tons per mile 89.29 tonnes per kilometer



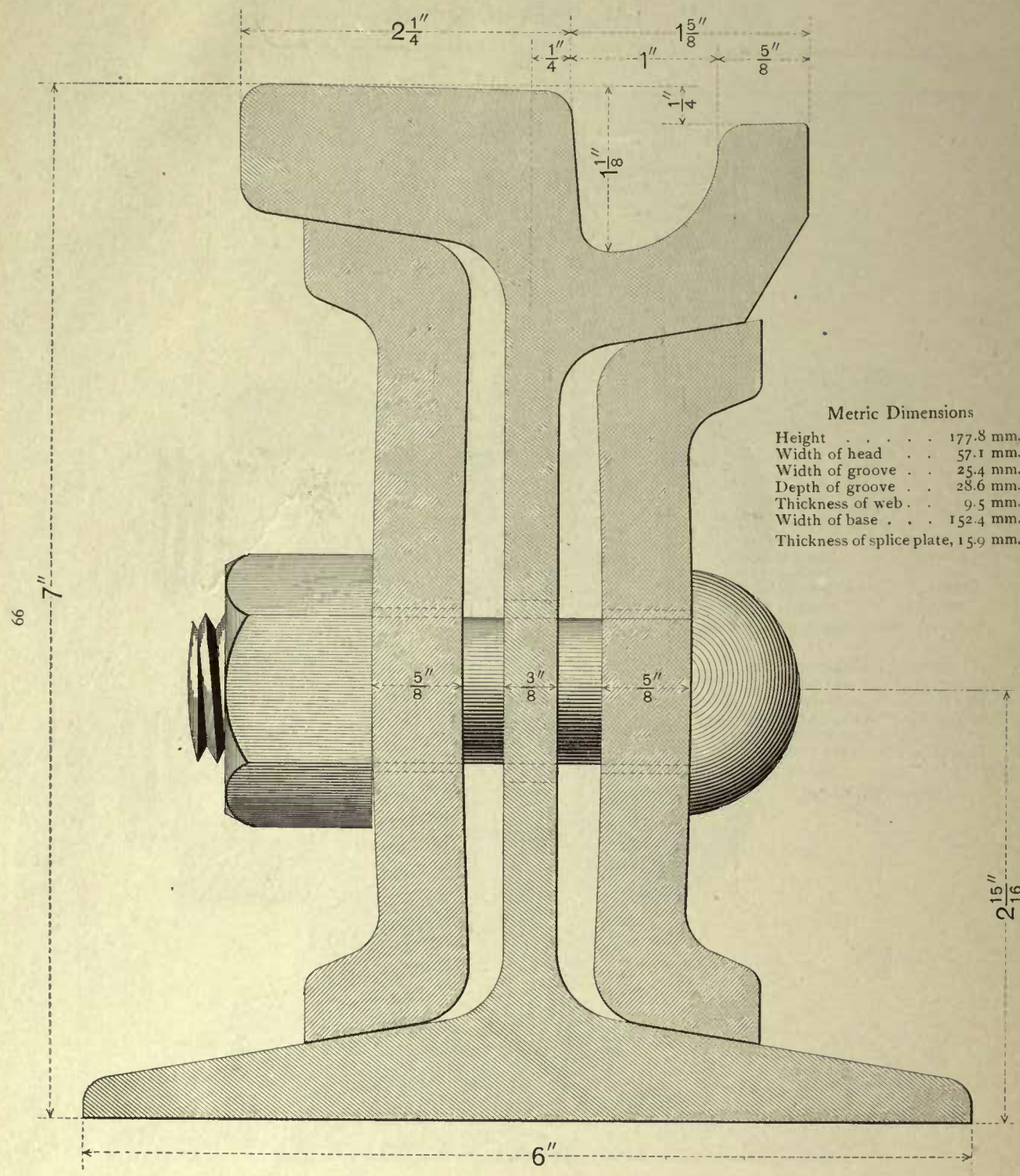
Metric Dimensions

Height	177.8 mm.
Width of head	57.1 mm.
Width of groove	76.2 mm.
Depth of groove	28.6 mm.
Thickness of web	14 3 mm.
Width of base	127.0 mm.

Thickness of splice plate, 17.5 mm.

Rail Section No. 254

107 pounds per yard 106.14 tonnes per kilometer 168.14 gross tons per mile
53 kilos per meter



Metric Dimensions

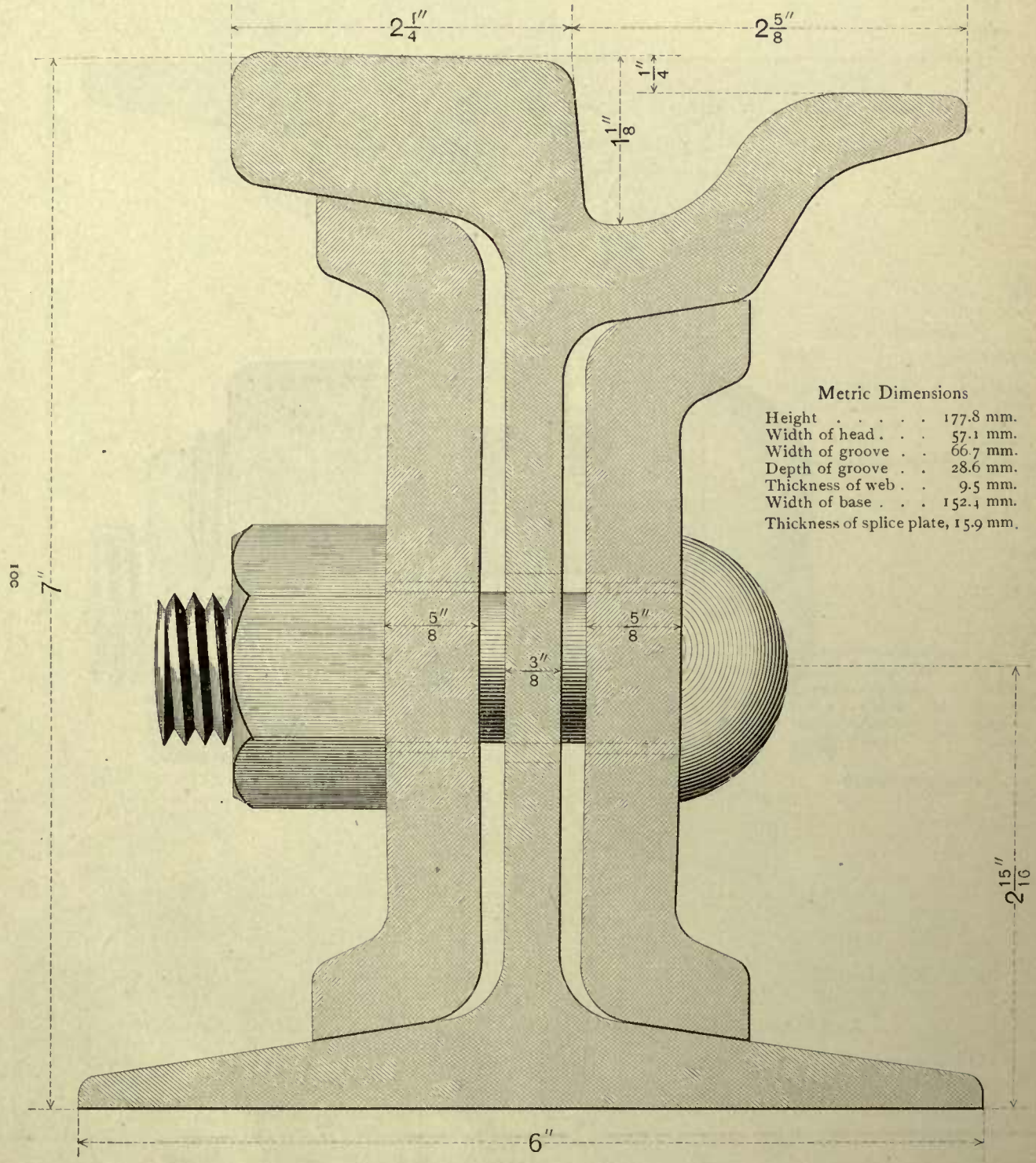
Height	177.8 mm.
Width of head	57.1 mm.
Width of groove	25.4 mm.
Depth of groove	28.6 mm.
Thickness of web	9.5 mm.
Width of base	152.4 mm.

Thickness of splice plate, 15.9 mm.

Rail Section No. 255

90 pounds per yard 44.6 kilos per meter 141.43 gross tons per mile 89.29 tonnes per kilometer

Channel splice-plate section No. 243



Metric Dimensions

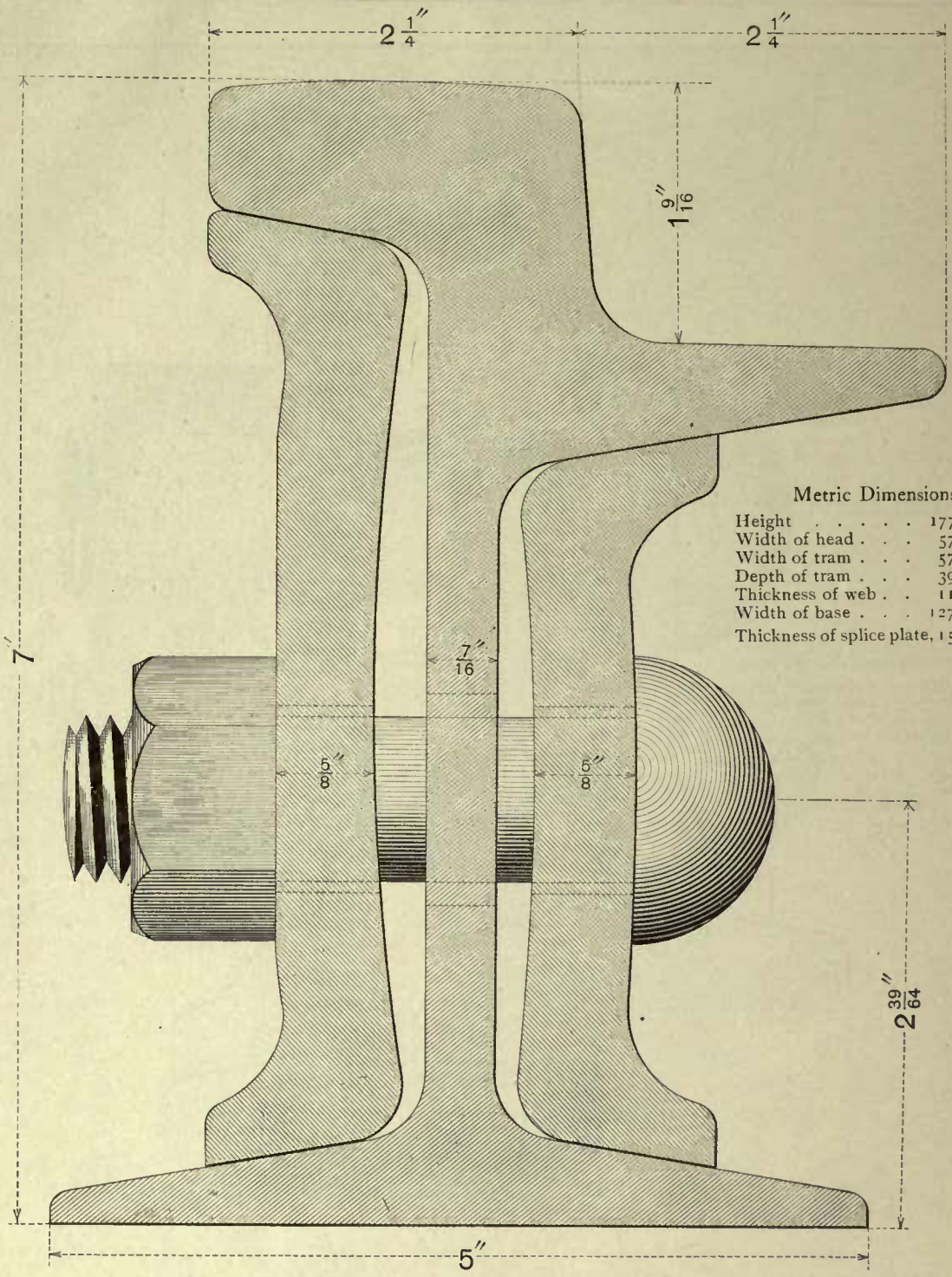
Height	177.8 mm.
Width of head	57.1 mm.
Width of groove	66.7 mm.
Depth of groove	28.6 mm.
Thickness of web	9.5 mm.
Width of base	152.4 mm.

Thickness of splice plate, 15.9 mm.

Rail Section No. 243

90 pounds per yard 44.6 kilos per meter 141.43 gross tons per mile 89.29 tonnes per kilometer

Channel splice-plate section No. 243



Metric Dimensions

Height	177.8 mm.
Width of head	57.1 mm.
Width of tram	57.1 mm.
Depth of tram	39.7 mm.
Thickness of web	11.1 mm.
Width of base	127.0 mm.

Thickness of splice plate, 15.9 mm.

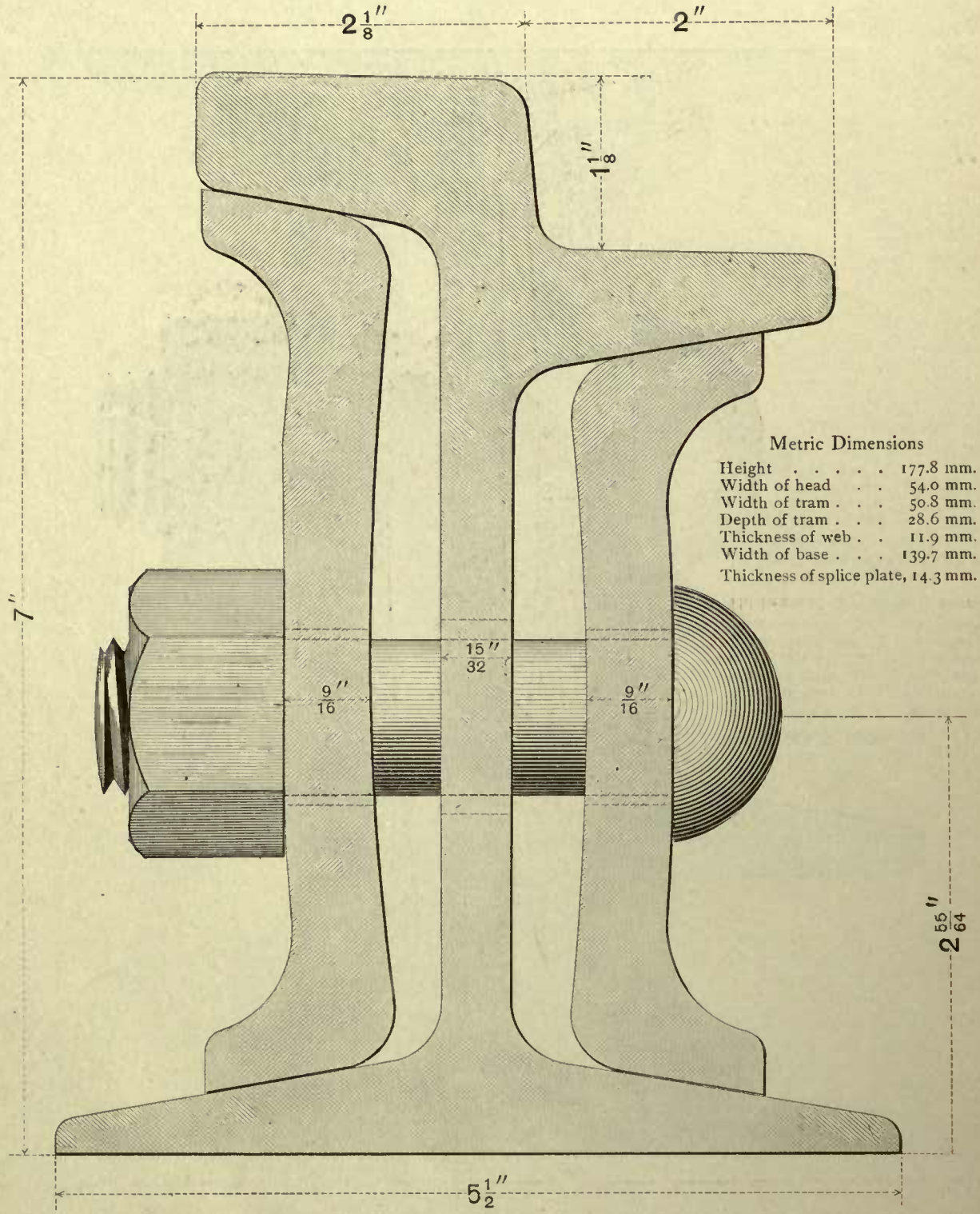
101

Rail Section No. 217

86 pounds per yard 42.6 kilos per meter 135.14 gross tons per mile 85.31 tonnes per kilometer

Channel splice-plate section No. 217

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Metric Dimensions

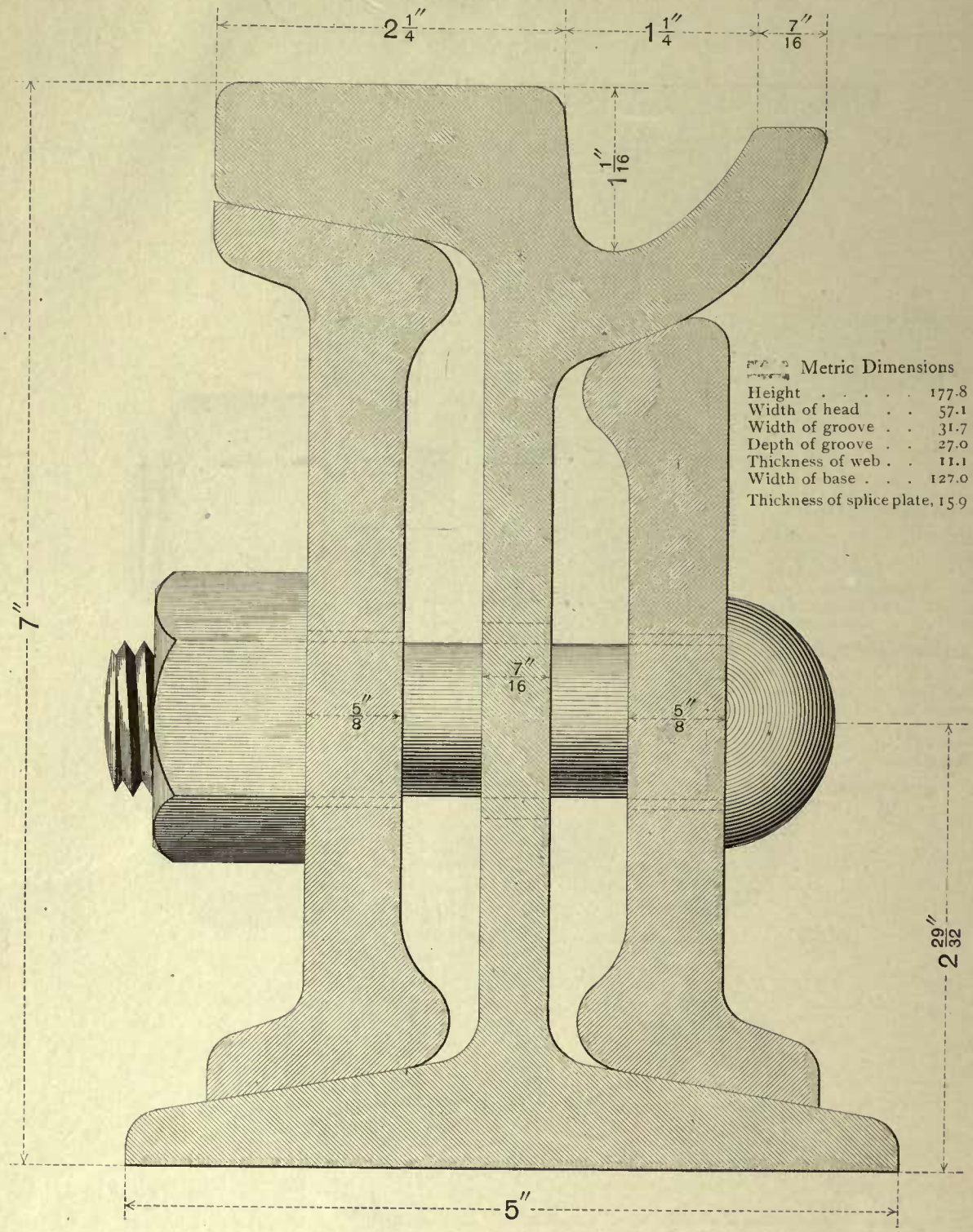
Height	177.8 mm.
Width of head	54.0 mm.
Width of tram	50.8 mm.
Depth of tram	28.6 mm.
Thickness of web	11.9 mm.
Width of base	139.7 mm.

Thickness of splice plate, 14.3 mm.

Rail Section No. 257

85 pounds per yard 42.2 kilos per meter 133.57 gross tons per mile 84.33 tonnes per kilometer

Channel splice-plate section No. 257



Metric Dimensions

Height	177.8 mm.
Width of head	57.1 mm.
Width of groove	31.7 mm.
Depth of groove	27.0 mm.
Thickness of web	11.1 mm.
Width of base	127.0 mm.

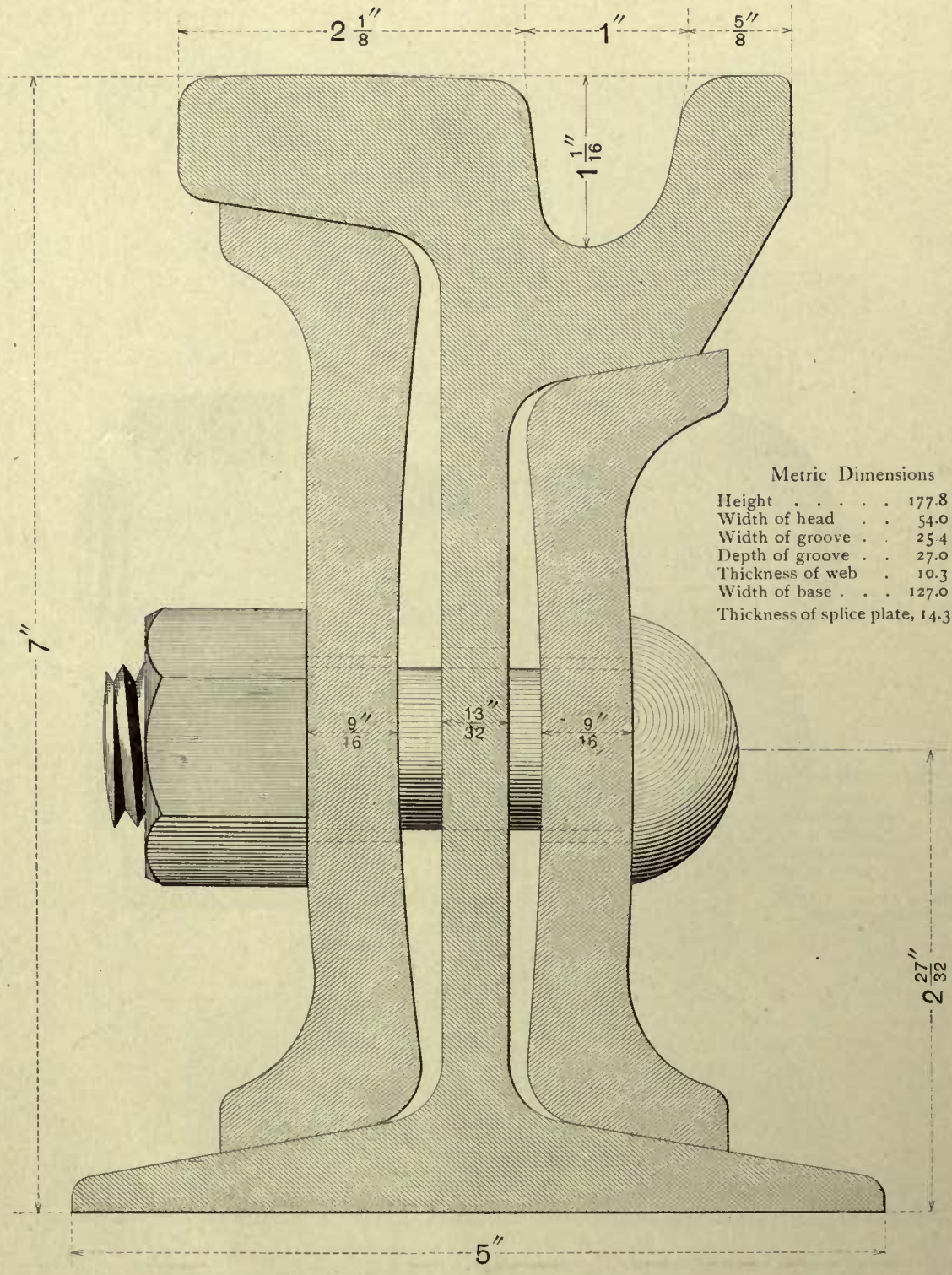
Thickness of splice plate, 15.9 mm.

Rail Section No. 256

85 pounds per yard 42.2 kilos per meter 133.57 gross tons per mile 84.32 tonnes per kilometer

Channel splice-plate section No. 256

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Metric Dimensions

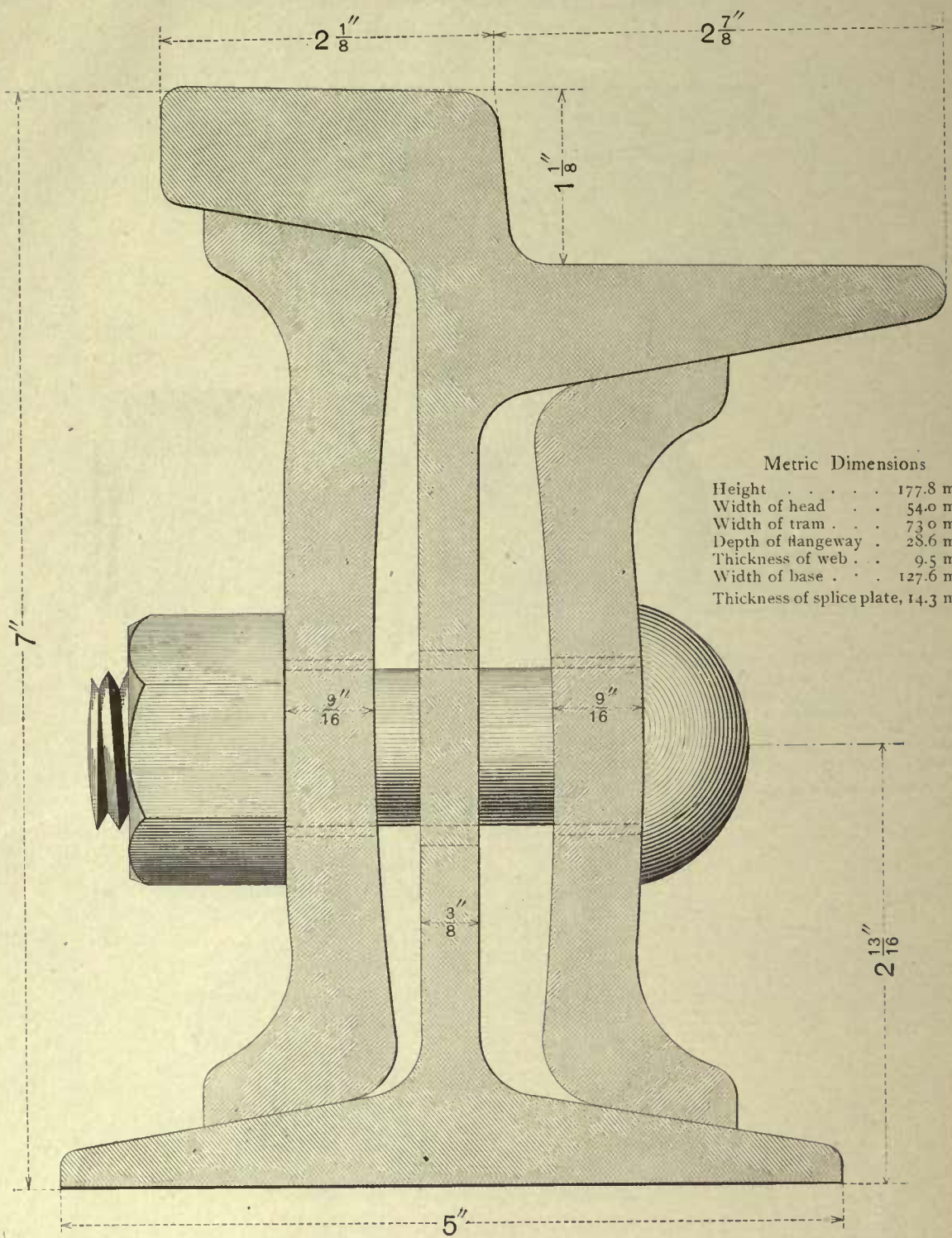
Height	177.8 mm.
Width of head	54.0 mm.
Width of groove	25.4 mm.
Depth of groove	27.0 mm.
Thickness of web	10.3 mm.
Width of base	127.0 mm.

Thickness of splice plate, 14.3 mm.

Rail Section No. 211

83 pounds per yard 41.2 kilos per meter 130.43 gross tons per mile 82.34 tonnes per kilometer

Channel splice-plate section No. 211



Metric Dimensions

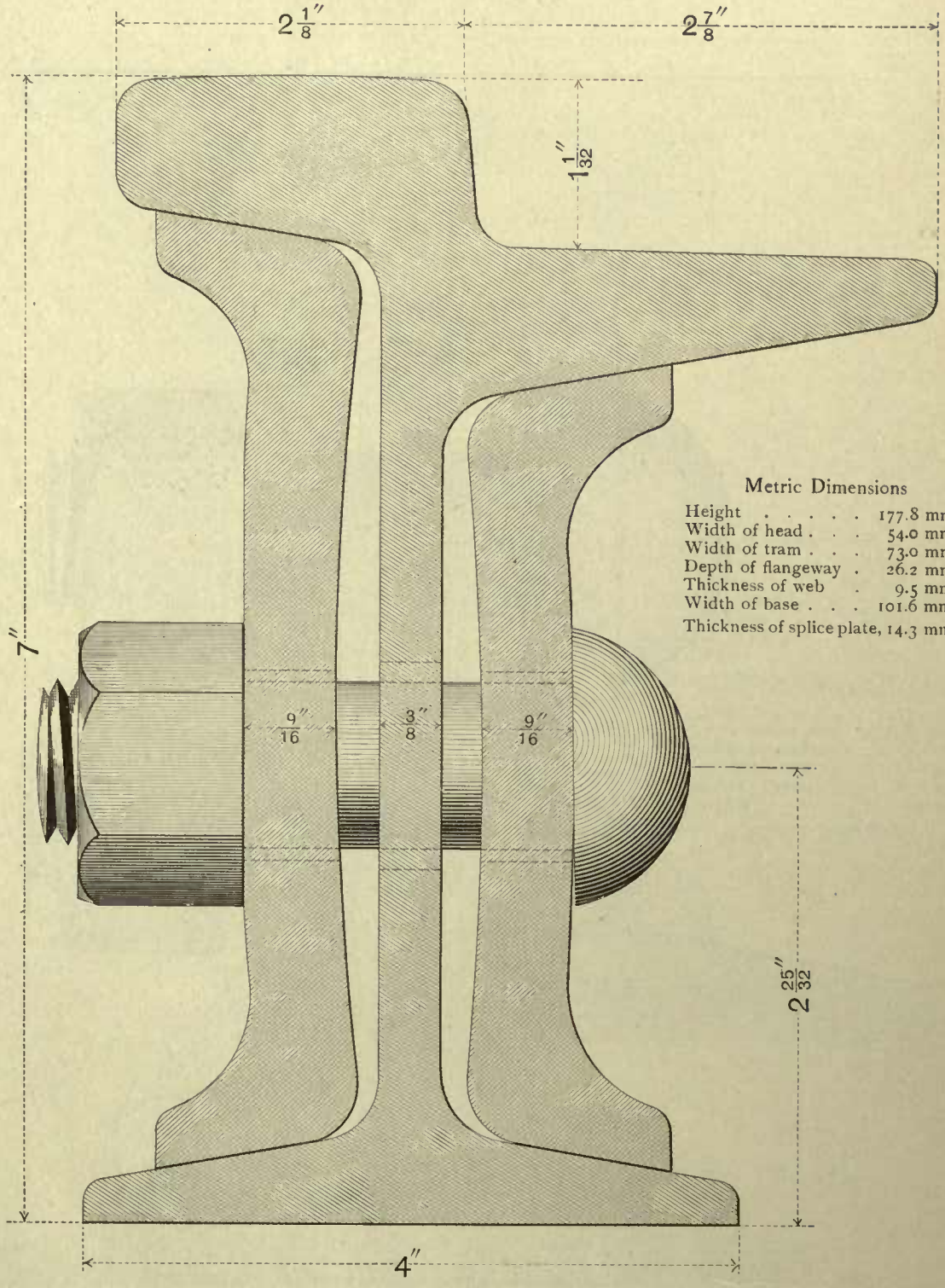
Height	177.8 mm.
Width of head	54.0 mm.
Width of tram	73.0 mm.
Depth of flangeway	28.6 mm.
Thickness of web	9.5 mm.
Width of base	127.6 mm.

Thickness of splice plate, 14.3 mm.

Rail Section No. 238

80 pounds per yard — 39.7 kilos per meter — 135.71 gross tons per mile — 79.37 tonnes per kilometer

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Metric Dimensions

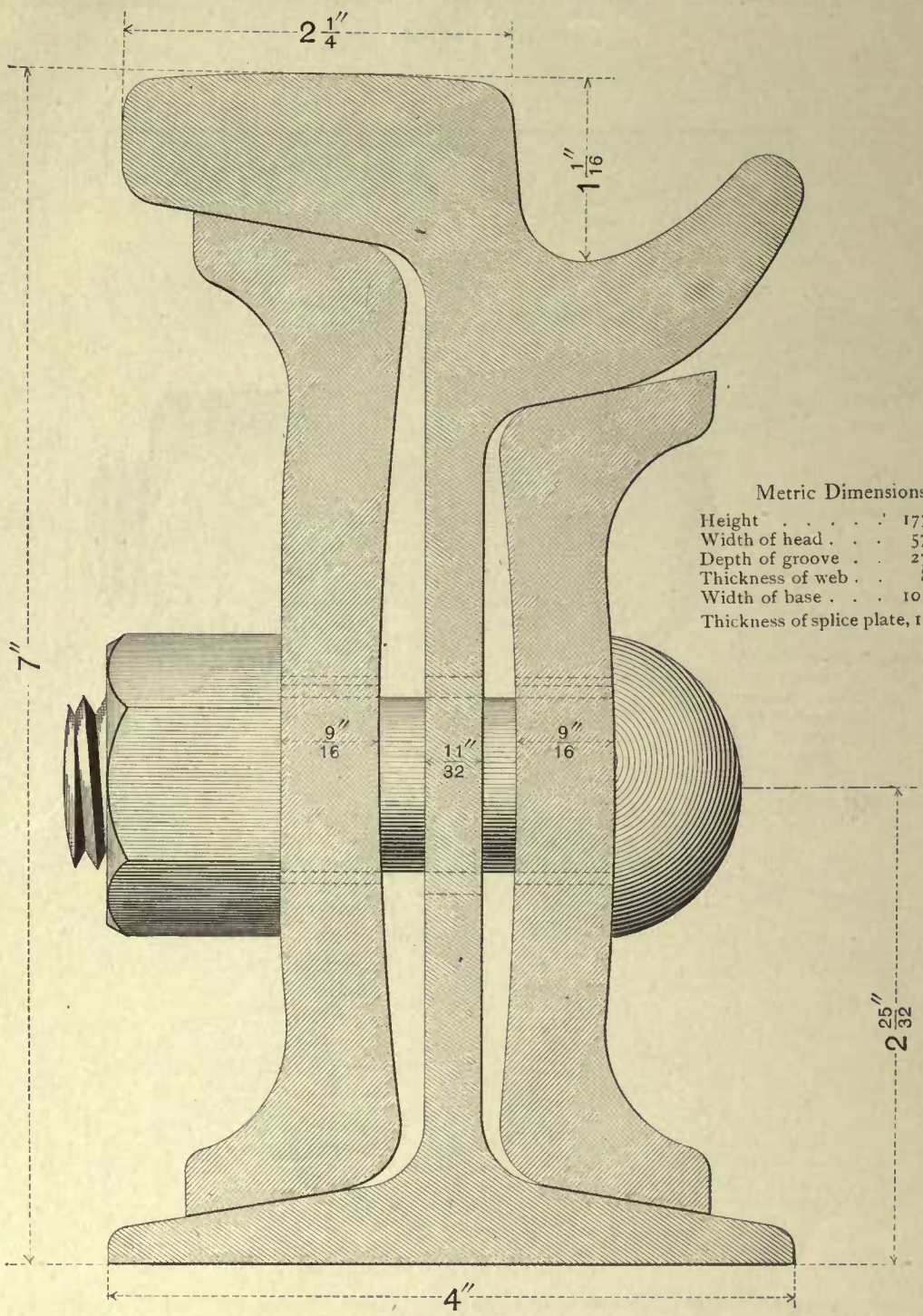
Height	177.8 mm.
Width of head	54.0 mm.
Width of tram	73.0 mm.
Depth of flangeway	26.2 mm.
Thickness of web	9.5 mm.
Width of base	101.6 mm.

Thickness of splice plate, 14.3 mm.

Rail Section No. 91

80 pounds per yard 39.7 kilos per meter 125.71 gross tons per mile 79.37 tonnes per kilometer

Channel splice-plate section No. 211



Metric Dimensions

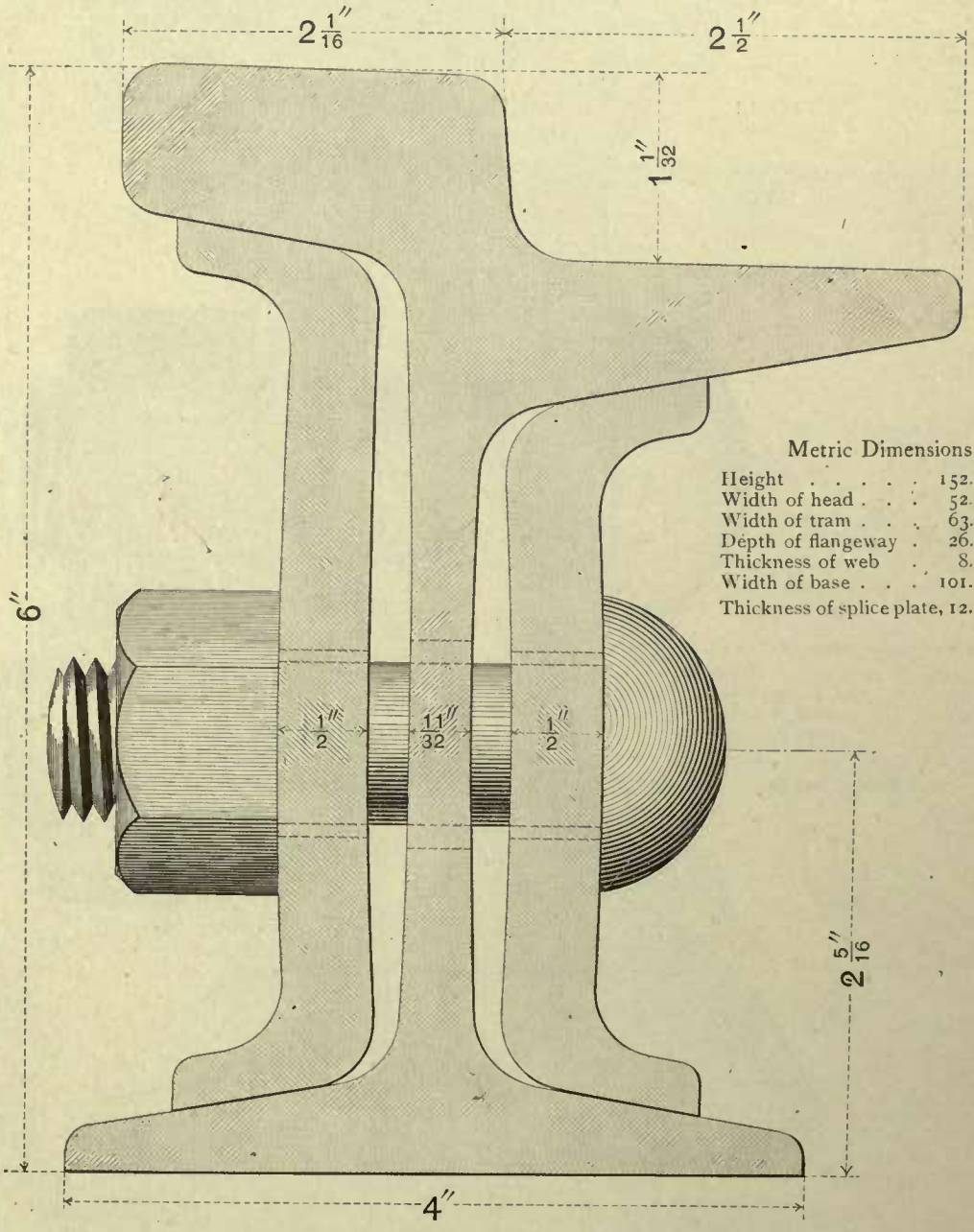
Height	177.8 mm.
Width of head	57.1 mm.
Depth of groove	27.0 mm.
Thickness of web	8.7 mm.
Width of base	101.6 mm.

Thickness of splice plate, 14.3 mm.

Section Rail No. 94

90 pounds per yard — 44.6 kilos per meter — 142.14 gross tons per mile — 71.40 tonnes per kilometer

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Metric Dimensions

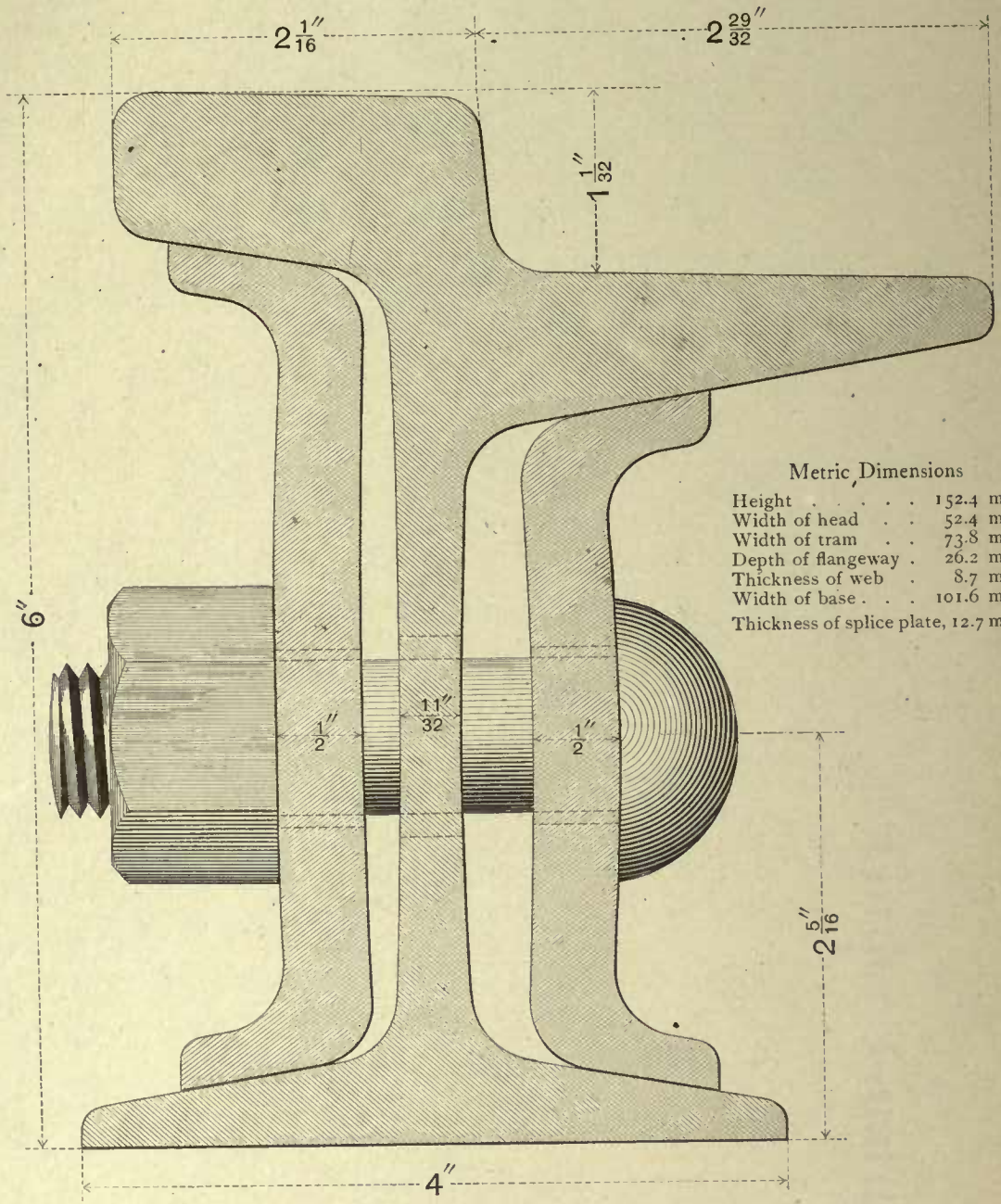
Height	152.4 mm.
Width of head	52.4 mm.
Width of tram	63.5 mm.
Depth of flangeway	26.2 mm.
Thickness of web	8.7 mm.
Width of base	101.6 mm.

Thickness of splice plate, 12.7 mm.

Rail Section No. 85

70 pounds per yard 34.7 kilos per meter 110 gross tons per mile 69.45 tonnes per kilometer

Channel splice-plate section No. 85



Metric Dimensions

Height	152.4 mm.
Width of head	52.4 mm.
Width of tram	73.8 mm.
Depth of flangeway	26.2 mm.
Thickness of web	8.7 mm.
Width of base	101.6 mm.

Thickness of splice plate, 12.7 mm.

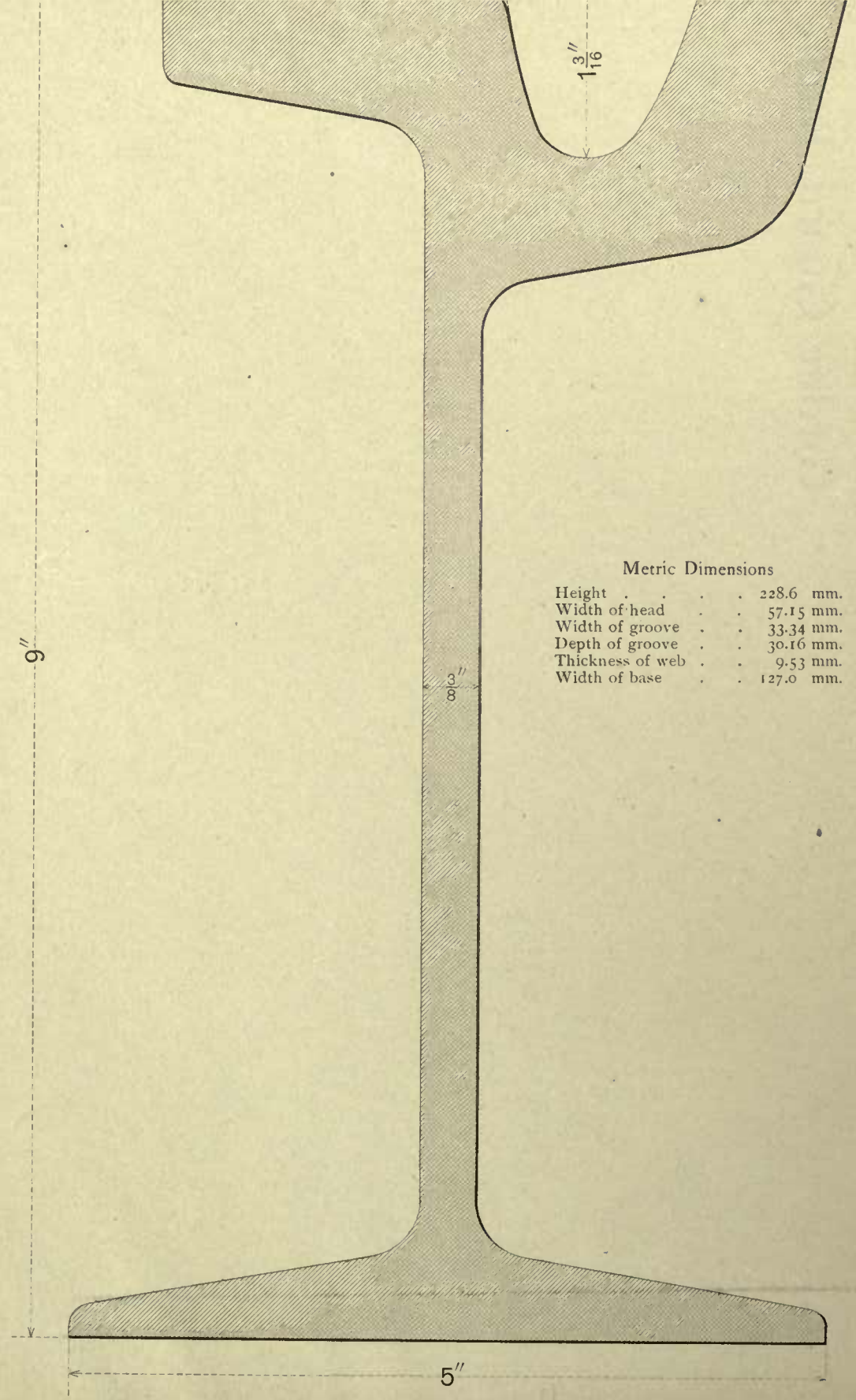
Rail Section No. 85-A

75 pounds per yard 37.2 kilos per meter 117.86 gross tons per mile 74.41 tonnes per kilometer

Channel splice-plate section No. 85

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Girder Guard Rails

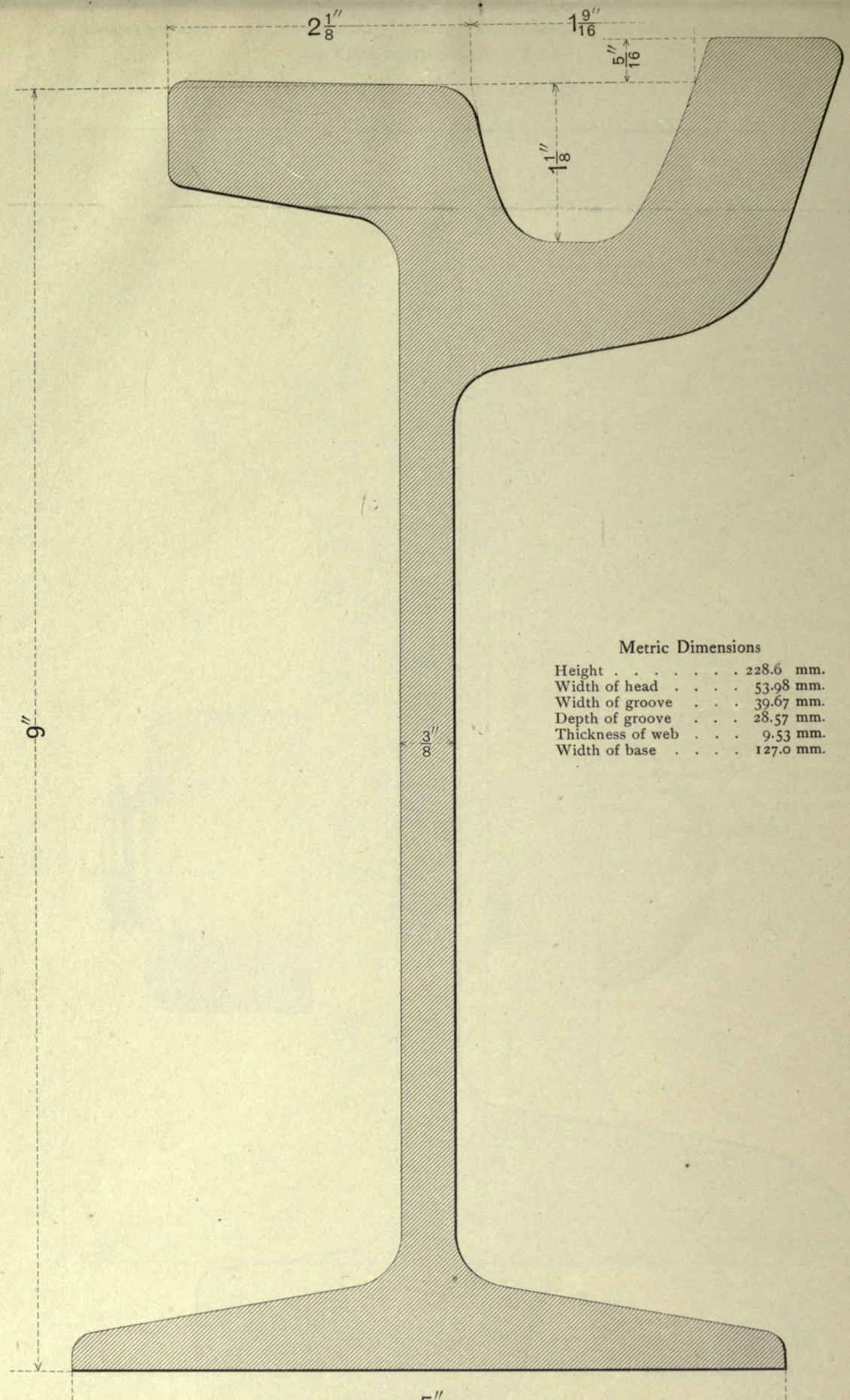


Metric Dimensions

Height	228.6 mm.
Width of head	57.15 mm.
Width of groove	33.34 mm.
Depth of groove	30.16 mm.
Thickness of web	9.53 mm.
Width of base	127.0 mm.

Rail Section No. 230

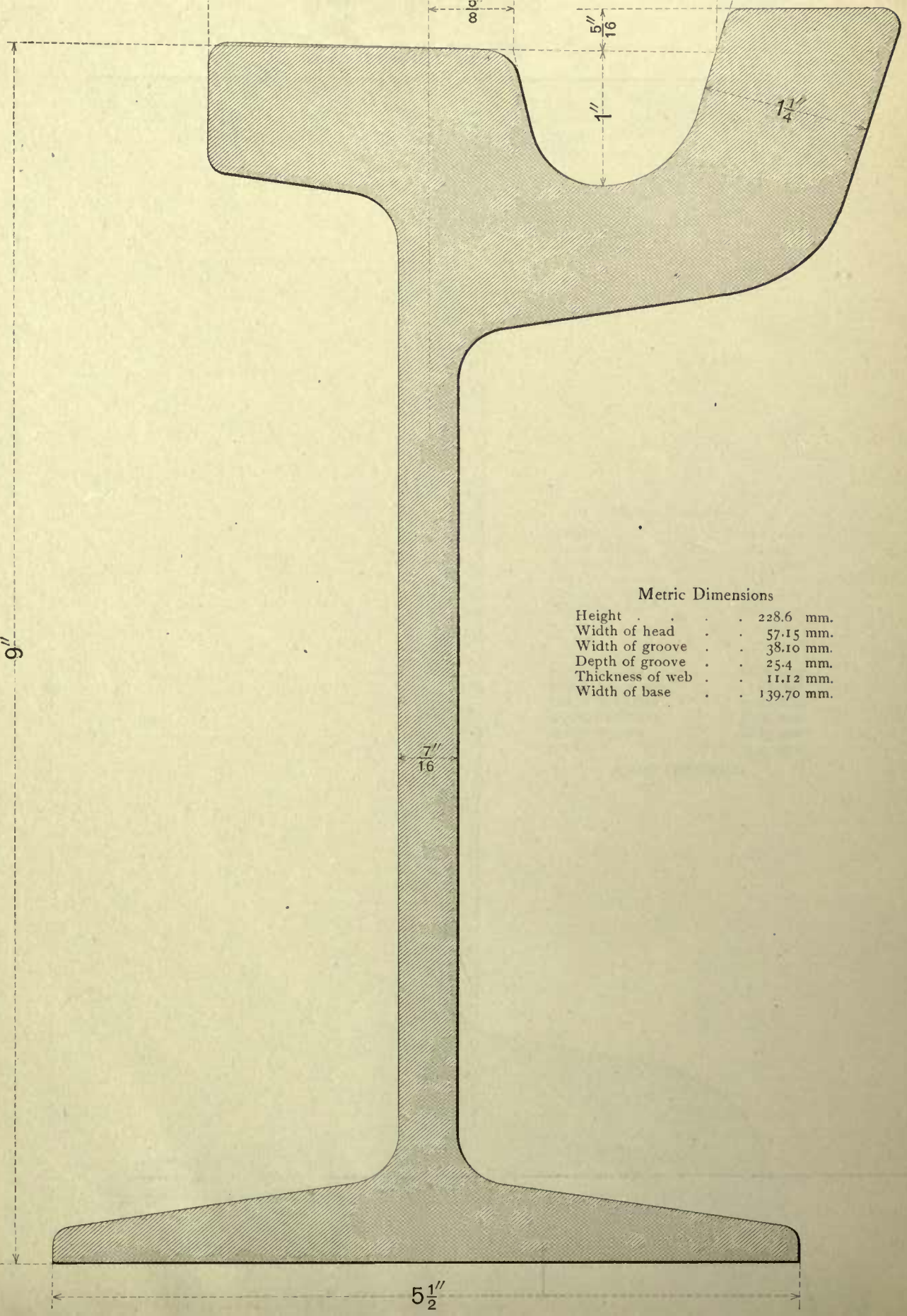
100 pounds per yard 49.6 kg. per meter 157.14 gross tons per mile 99.21 tonnes per kilometer



Metric Dimensions

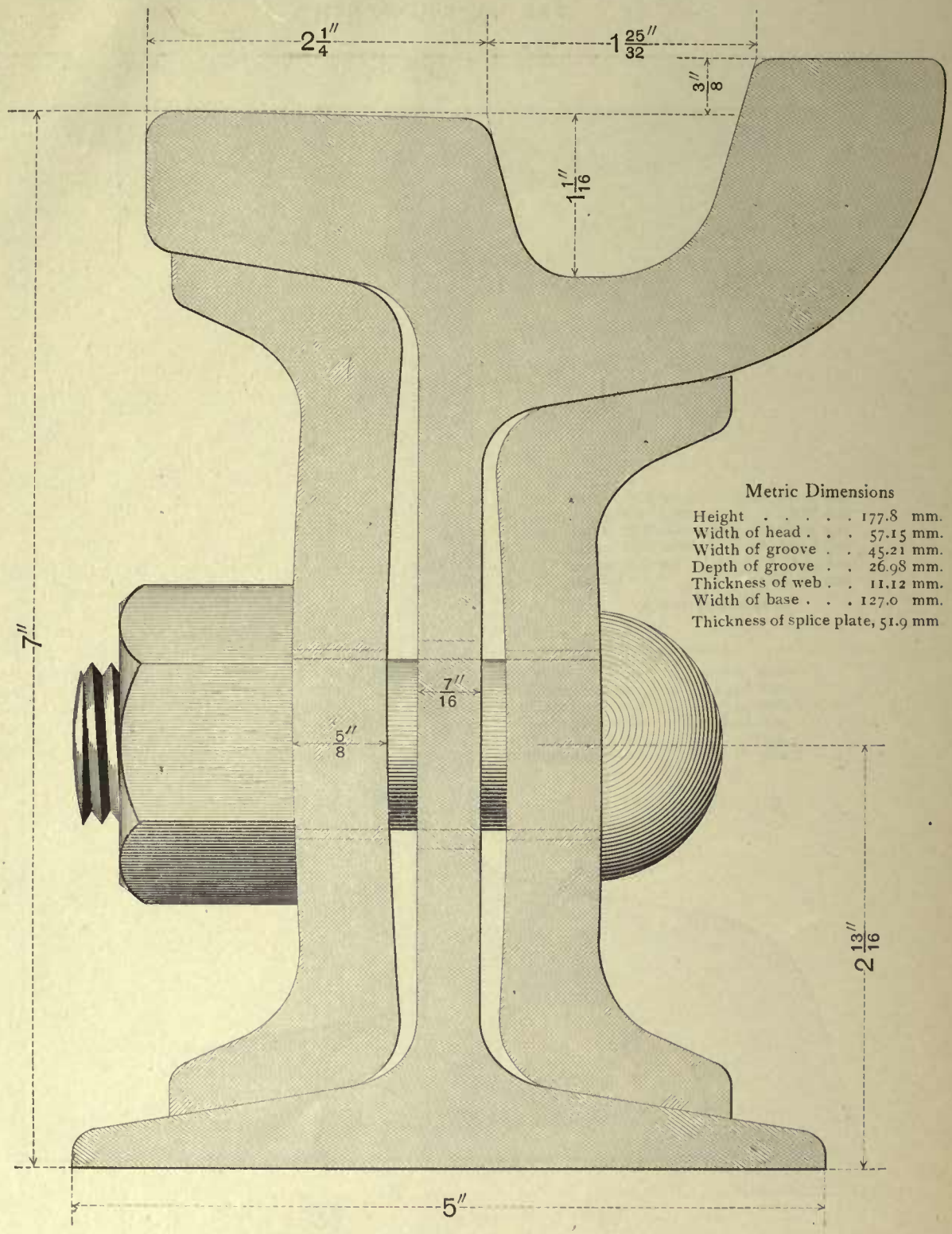
Height	228.6 mm.
Width of head	53.98 mm.
Width of groove	39.67 mm.
Depth of groove	28.57 mm.
Thickness of web	9.53 mm.
Width of base	127.0 mm.

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Metric Dimensions

Height	228.6 mm.
Width of head	57.15 mm.
Width of groove	38.10 mm.
Depth of groove	25.4 mm.
Thickness of web	11.12 mm.
Width of base	139.70 mm.



Metric Dimensions

Height	177.8 mm.
Width of head	57.15 mm.
Width of groove	45.21 mm.
Depth of groove	26.98 mm.
Thickness of web	11.12 mm.
Width of base	127.0 mm.

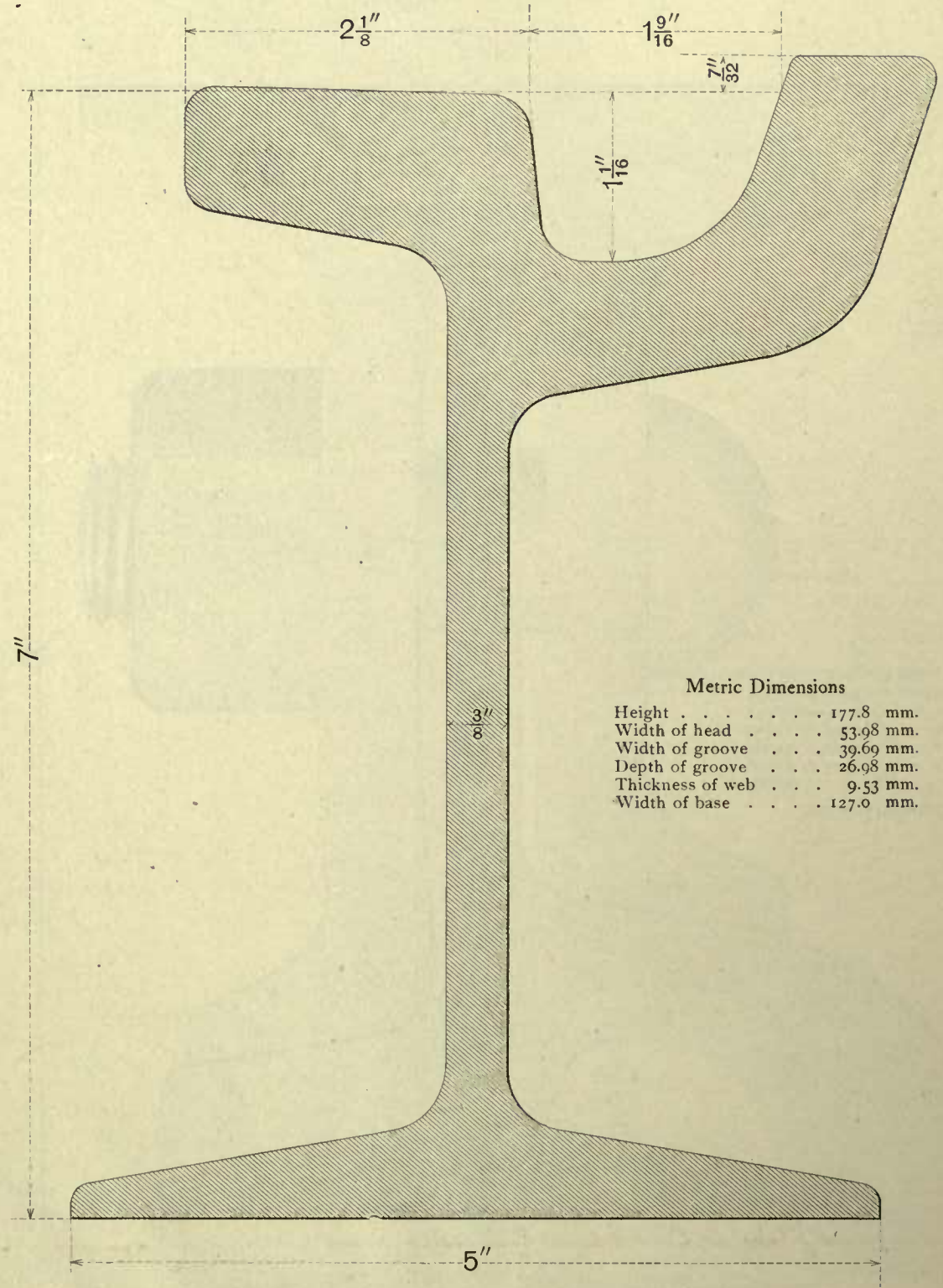
Thickness of splice plate, 51.9 mm

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Rail Section No. 234

110 pounds per yard 54.6 kg. per meter 172.86 gross tons per mile 109.13 tonnes per kilometer

Channel splice-plate section No. 234



Metric Dimensions

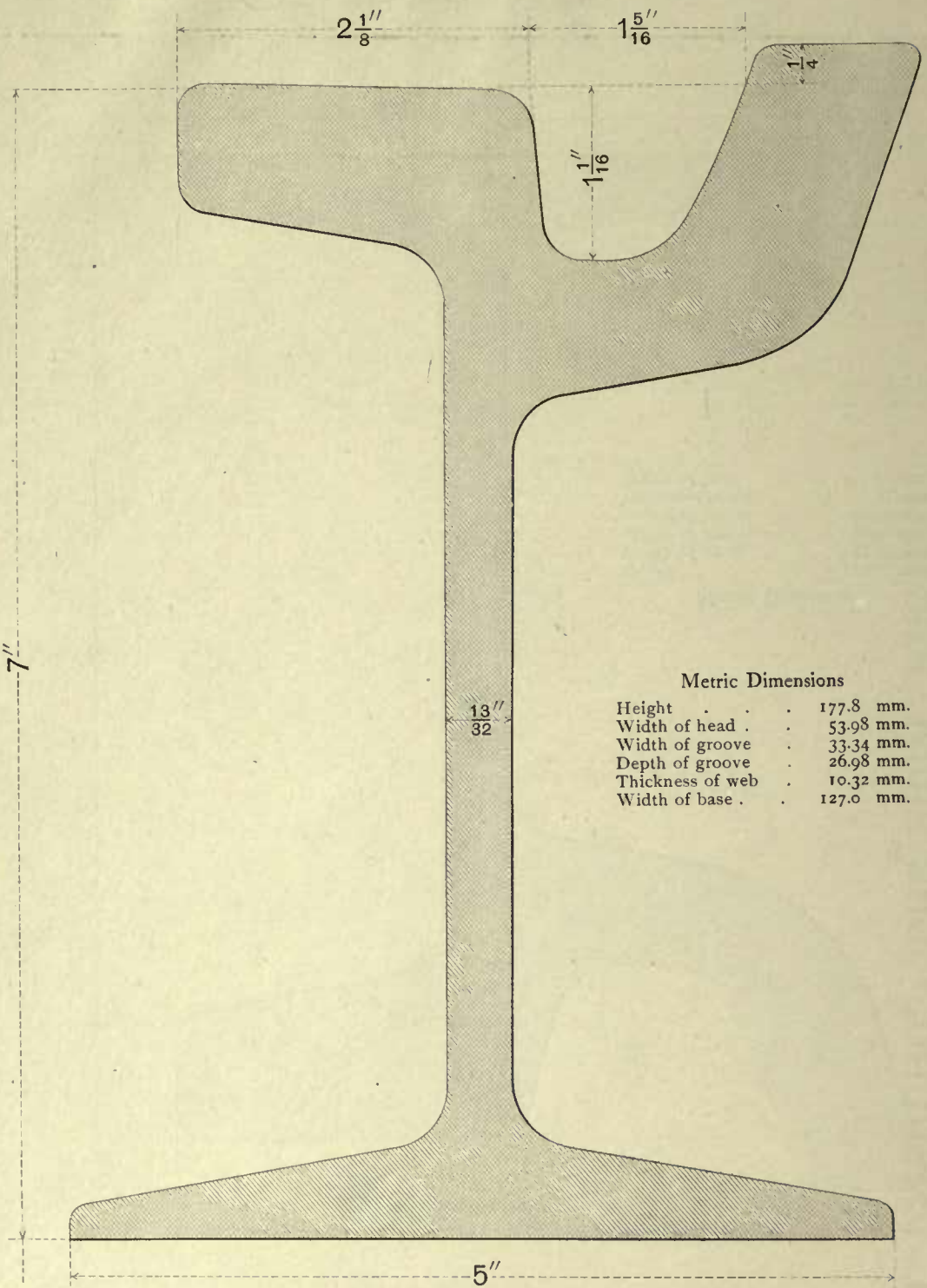
Height	177.8 mm.
Width of head	53.98 mm.
Width of groove	39.69 mm.
Depth of groove	26.98 mm.
Thickness of web	9.53 mm.
Width of base	127.0 mm.

911

Rail Section No. 215

92 pounds per yard 45.6 kg. per meter 144.57 gross tons per mile 91.29 tonnes per kilometer

Takes channel splice-plate section No. 211



Metric Dimensions

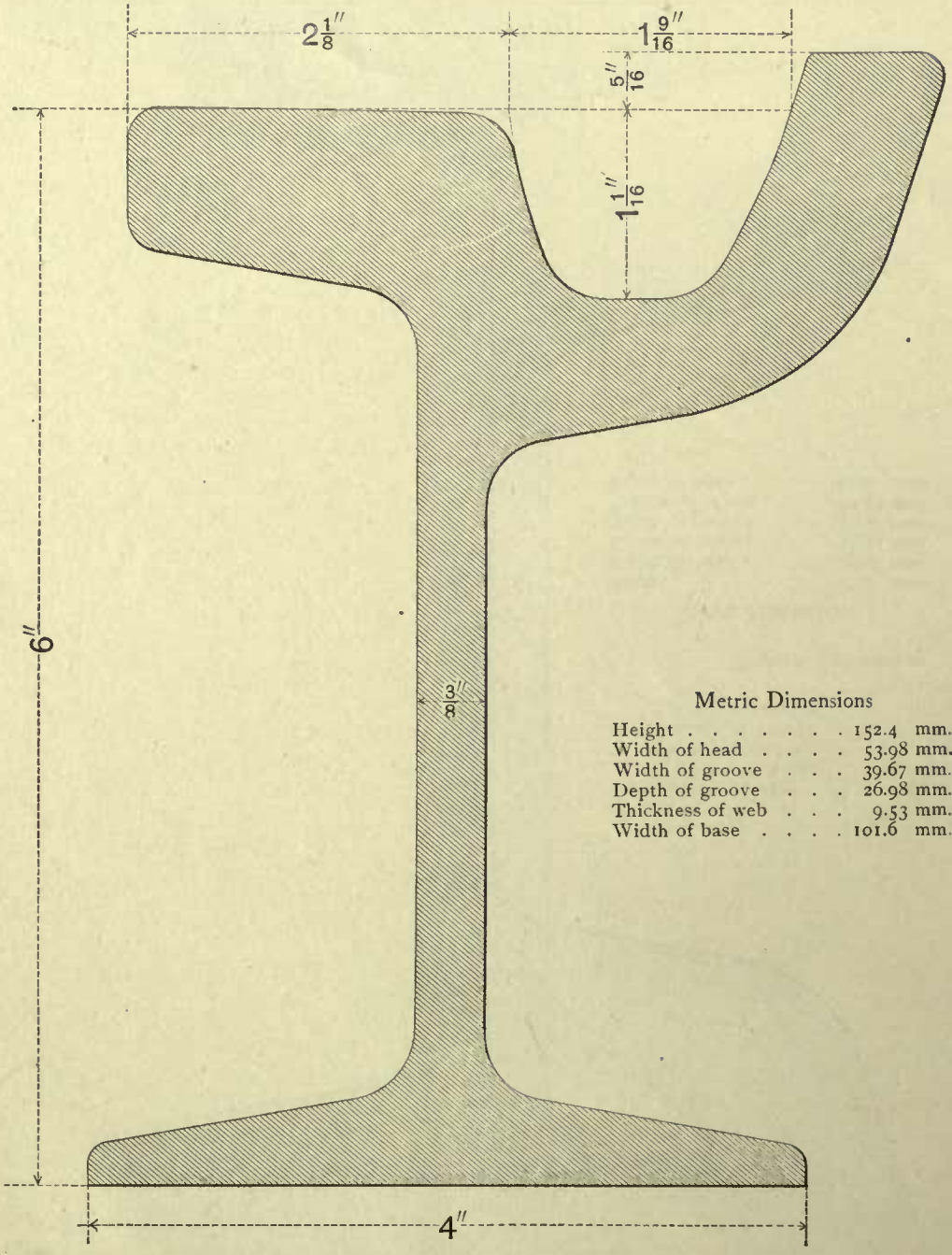
Height	177.8 mm.
Width of head	53.98 mm.
Width of groove	33.34 mm.
Depth of groove	26.98 mm.
Thickness of web	10.32 mm.
Width of base	127.0 mm.

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Rail Section No. 212

92 pounds per yard 45.6 kg. per meter 144.57 gross tons per mile 91.29 tonnes per kilometer

Takes channel splice-plate section No. 211



Metric Dimensions

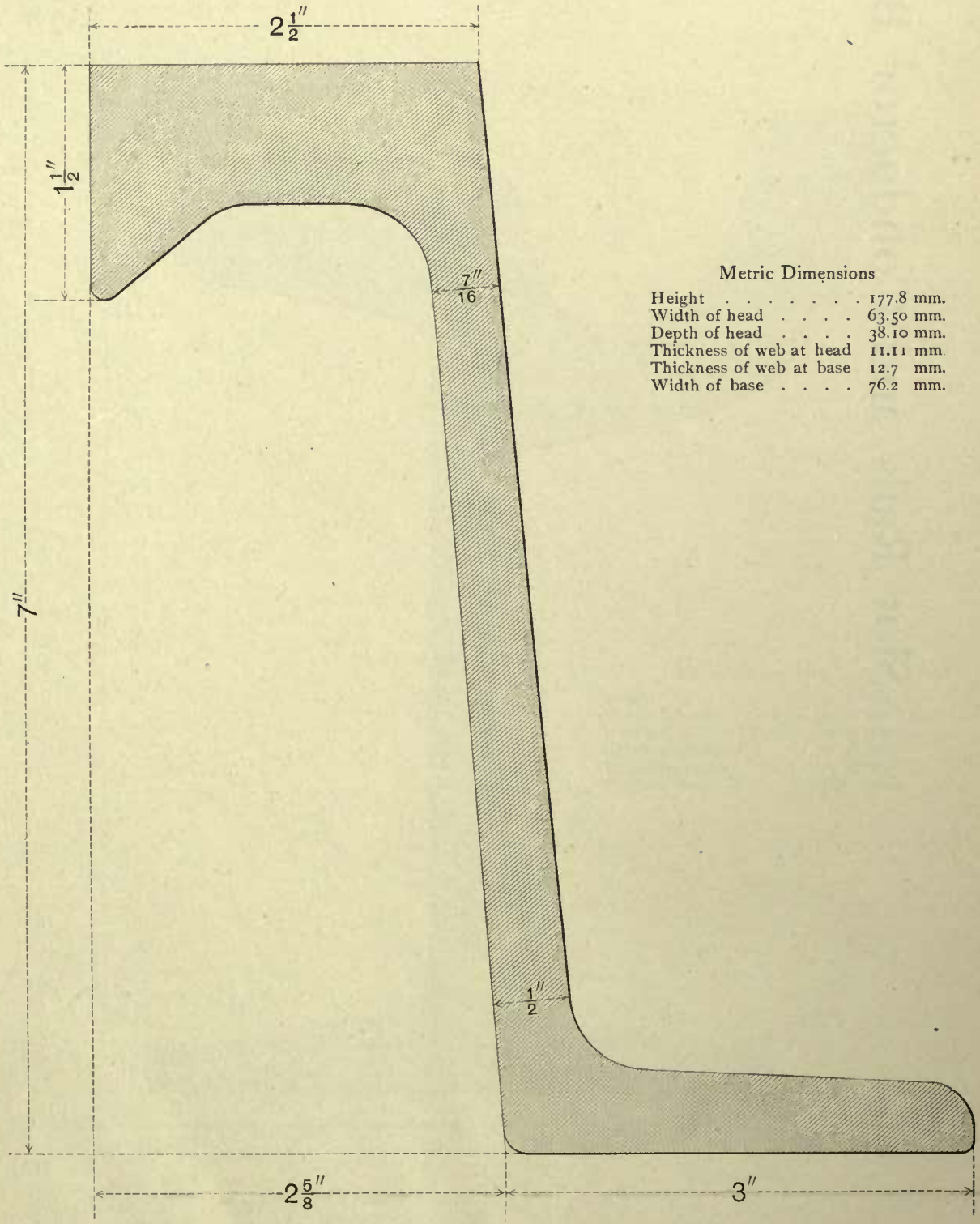
Height	152.4 mm.
Width of head	53.98 mm.
Width of groove	39.67 mm.
Depth of groove	26.98 mm.
Thickness of web	9.53 mm.
Width of base	101.6 mm.

Rail Section No. 86

80 pounds per yard 39.7 kg. per meter 125.71 gross tons per mile 79.37 tonnes per kilometer

Takes channel splice-plate section No. 85

Slot Rails and Conductor Bars

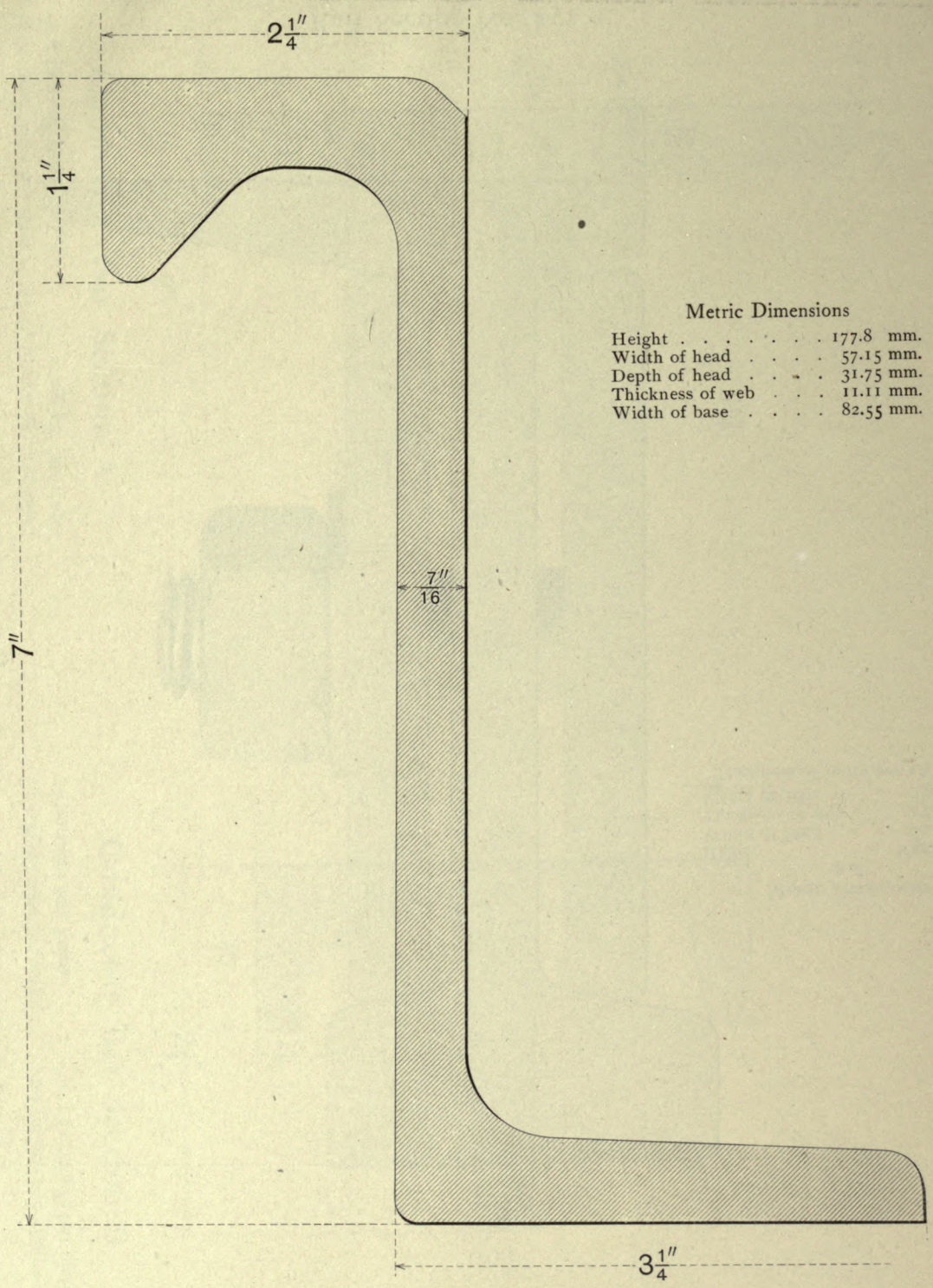


Metric Dimensions

Height	177.8 mm.
Width of head	63.50 mm.
Depth of head	38.10 mm.
Thickness of web at head	11.11 mm.
Thickness of web at base	12.7 mm.
Width of base	76.2 mm.

Rail Section No. 213

67 pounds per yard 33.2 kg. per meter 105.29 gross tons per mile 66.46 tonnes per kilometer

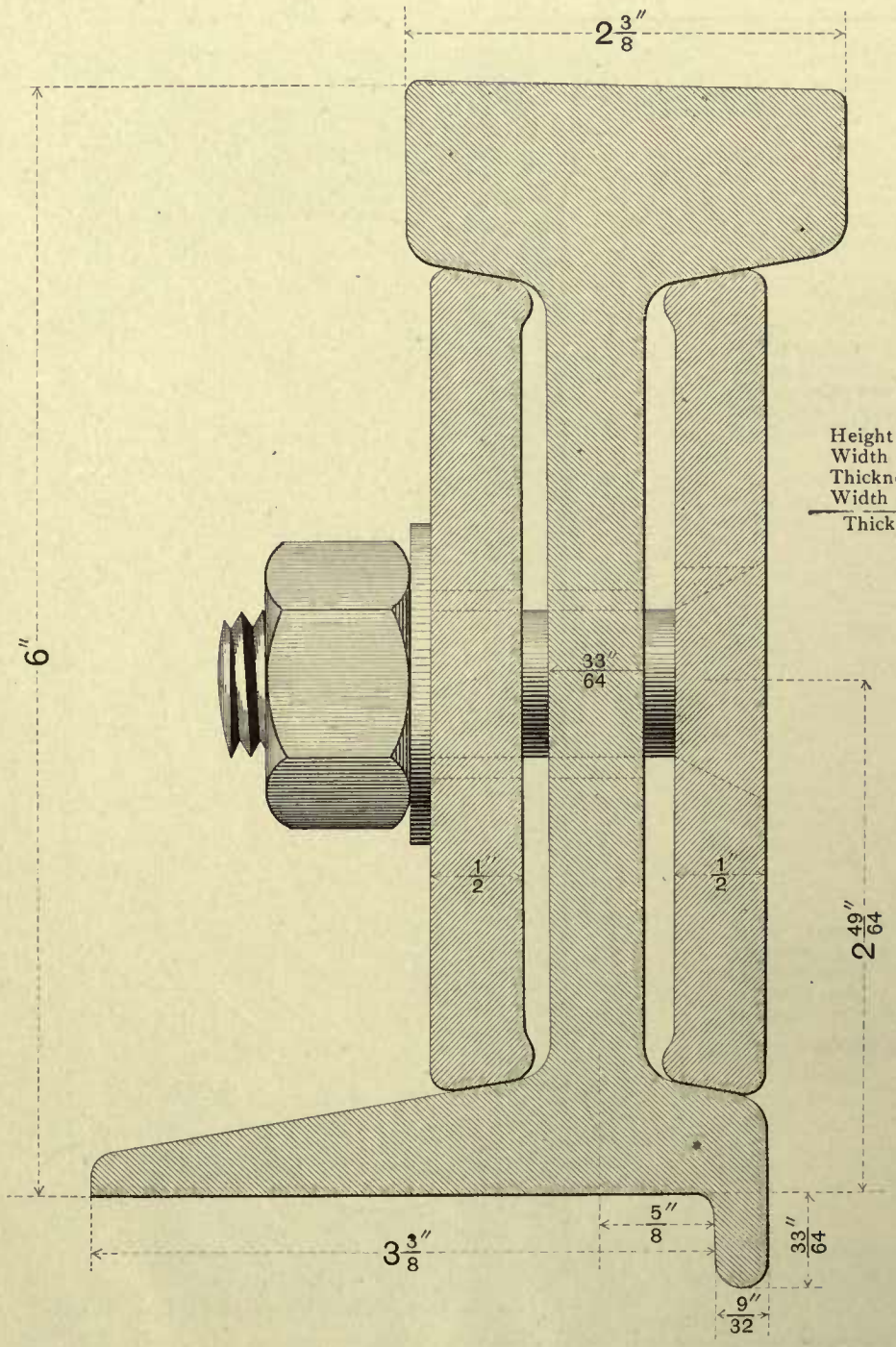


Metric Dimensions

Height	177.8 mm.
Width of head	57.15 mm.
Depth of head	31.75 mm.
Thickness of web	11.11 mm.
Width of base	82.55 mm.

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Rail Section No. 227



Metric Dimensions

Rail

Height	152.4 mm.
Width of head	60.52 mm.
Thickness of web	13.10 mm.
Width of base	85.73 mm.

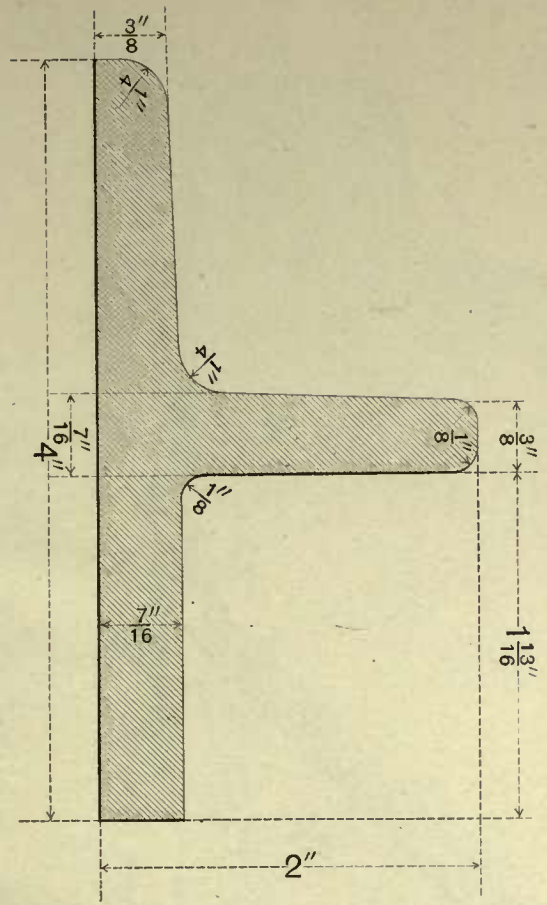
Thickness of splice bar, 12.7 mm.

Rail Section No. 252

66 pounds per yard 32.7 kg. per meter 103.71 gross tons per mile 65.47 tonnes per kilometer

Special Channel Splice-plate Section No. 252

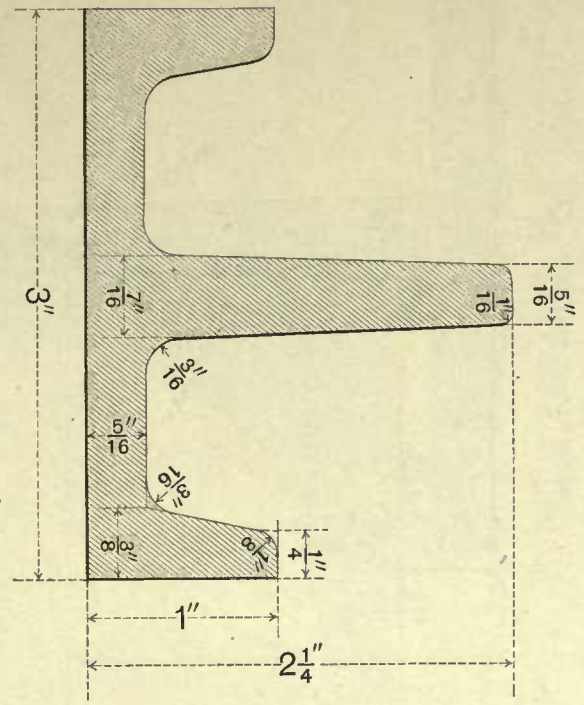
7.3 pounds per foot 10.87 kg. per meter



Conductor Bar Section A

23.5 pounds per yard 11.66 kg. per meter
36.92 gross tons per mile 23.30 tonnes per kilometer

Metric Dimensions
Width . . . . . 50.8 mm.
Depth of face . . . 101.6 mm.

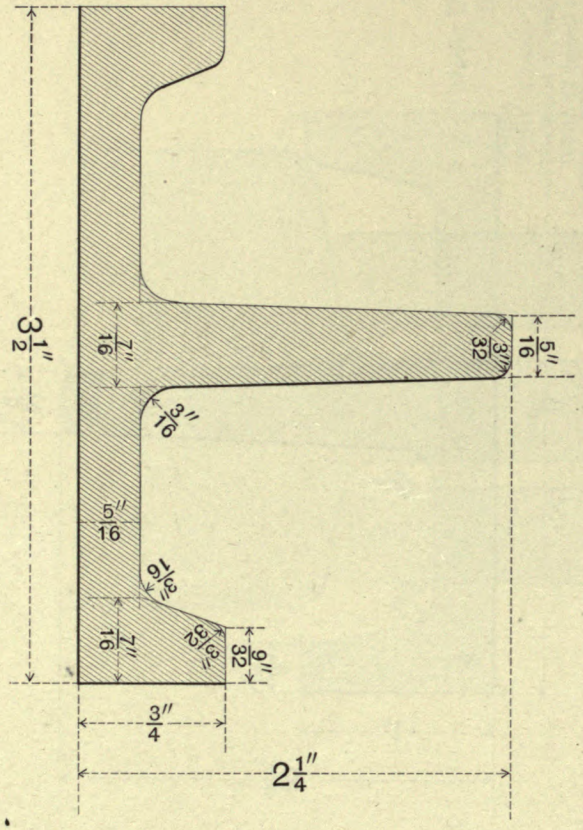


Conductor Bar Section B

21 pounds per yard 10.42 kg. per meter
33.0 gross tons per mile 20.82 tonnes per kilometer

Metric Dimensions
Width . . . . . 57.1 mm.
Depth of face . . . 76.2 mm.

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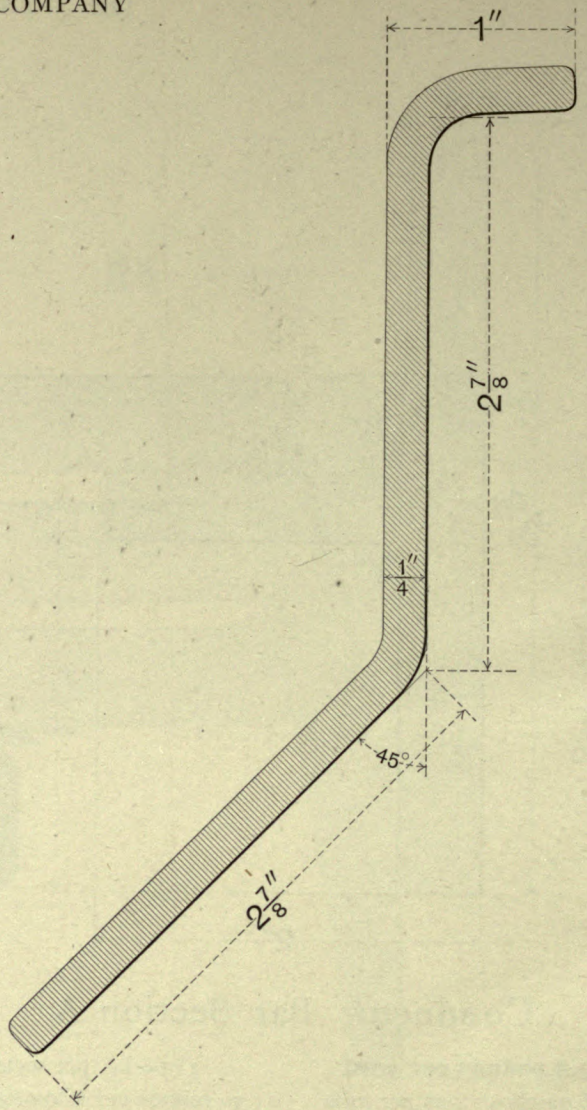


Conductor Bar Section C

22.4 pounds per yard 11.12 kg. per meter
35.2 gross tons per mile 22.21 tonnes per kilometer

Metric Dimensions

Width	57.1 mm.
Depth of face . . .	88.9 mm.

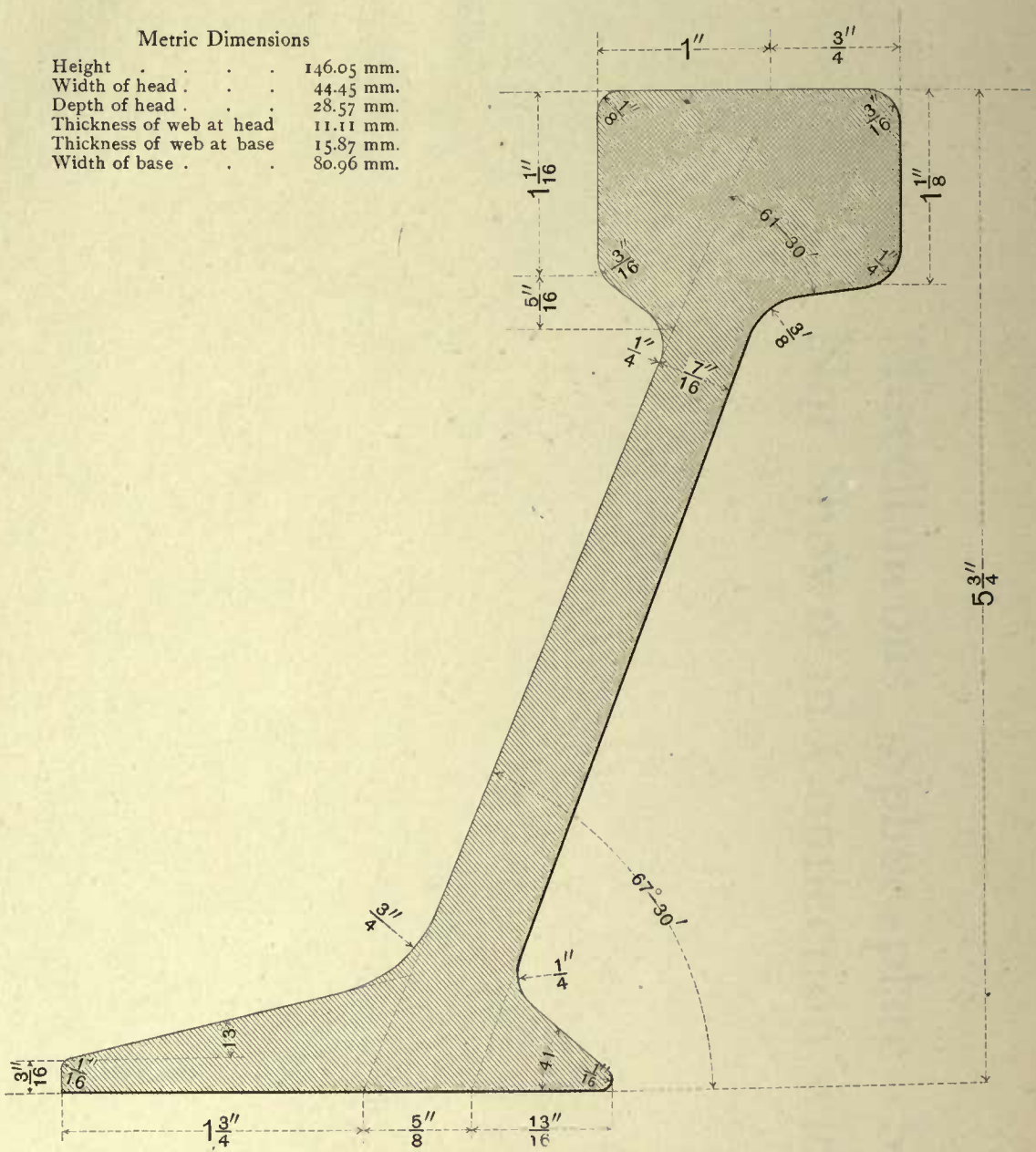


Conduit Plate

16 pounds per yard 15.87 kg. per meter

Metric Dimensions

Height	146.05 mm.
Width of head	44.45 mm.
Depth of head	28.57 mm.
Thickness of web at head	11.11 mm.
Thickness of web at base	15.87 mm.
Width of base	80.96 mm.



Rolled for the Rapid Transit Subway Commission, New York City

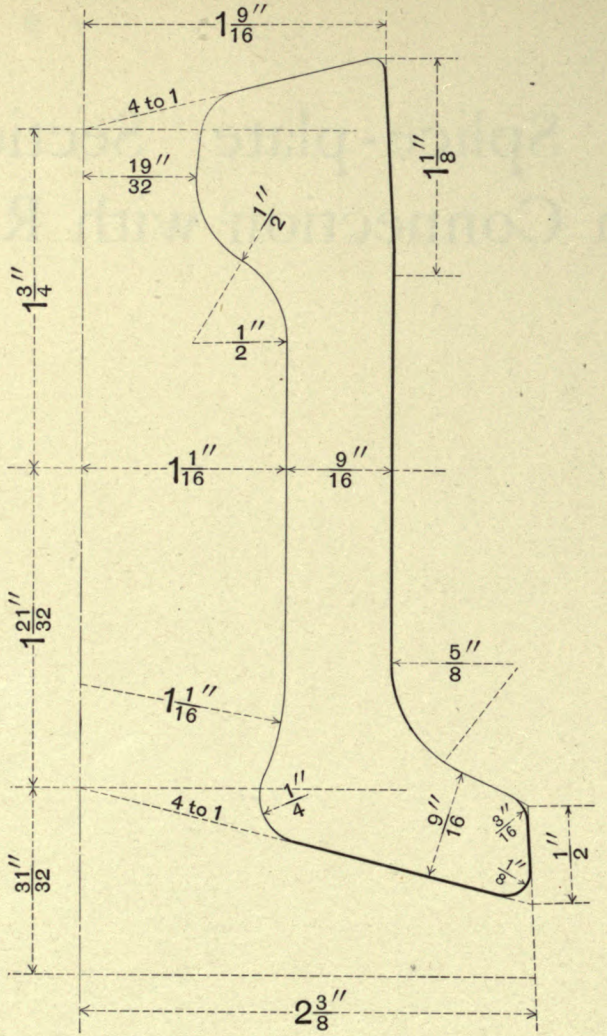
Check Rail Section No. 262

57½ pounds per yard 28.53 kg. per meter 90.35 gross tons per mile 57.02 tonnes per kilometer

Splice-plate section No. 262

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Miscellaneous Splice-plate Sections Not Shown in Connection with Rails

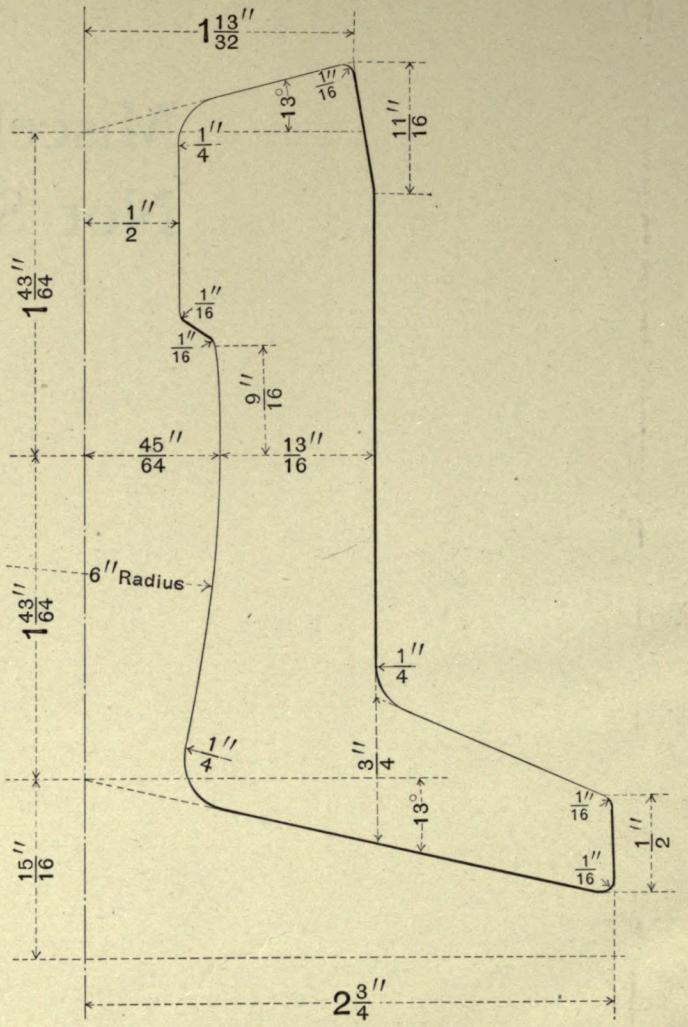


Angle Splice-plate Section No. D-100-6″

10.54 pounds per foot

15.7 kg. per meter

Fits " Dudley " 100-pound rail 6″ high

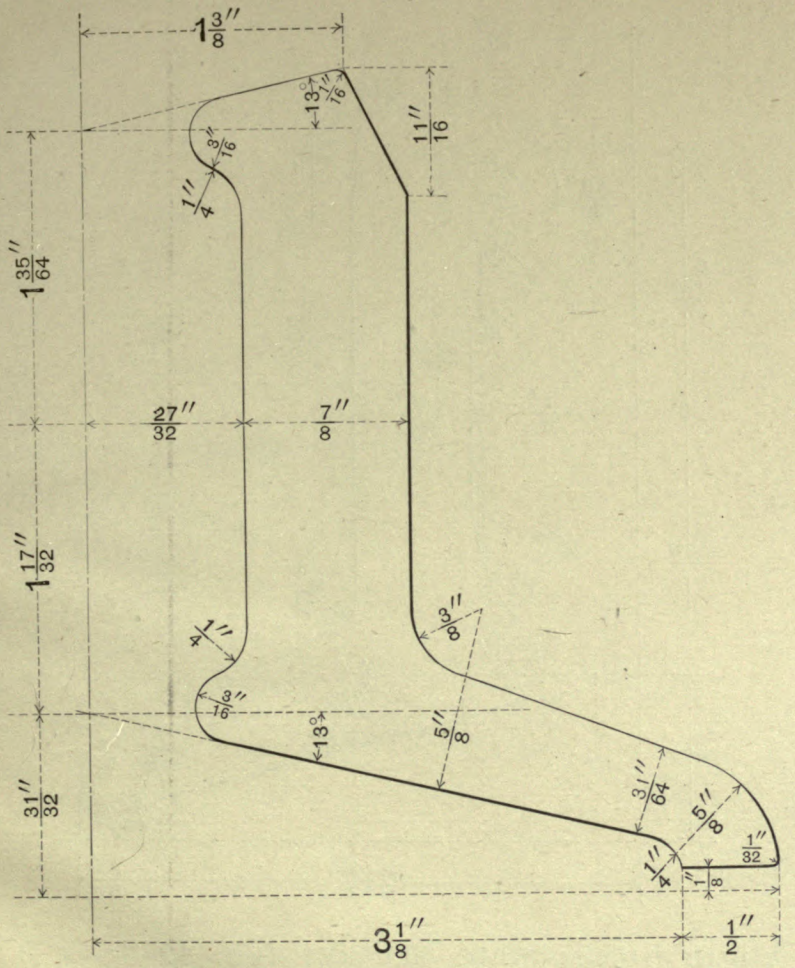


Angle Splice-plate Section No. 100-A

15.18 pounds per foot

22.6 kg. per meter

Fits rail section No. 100

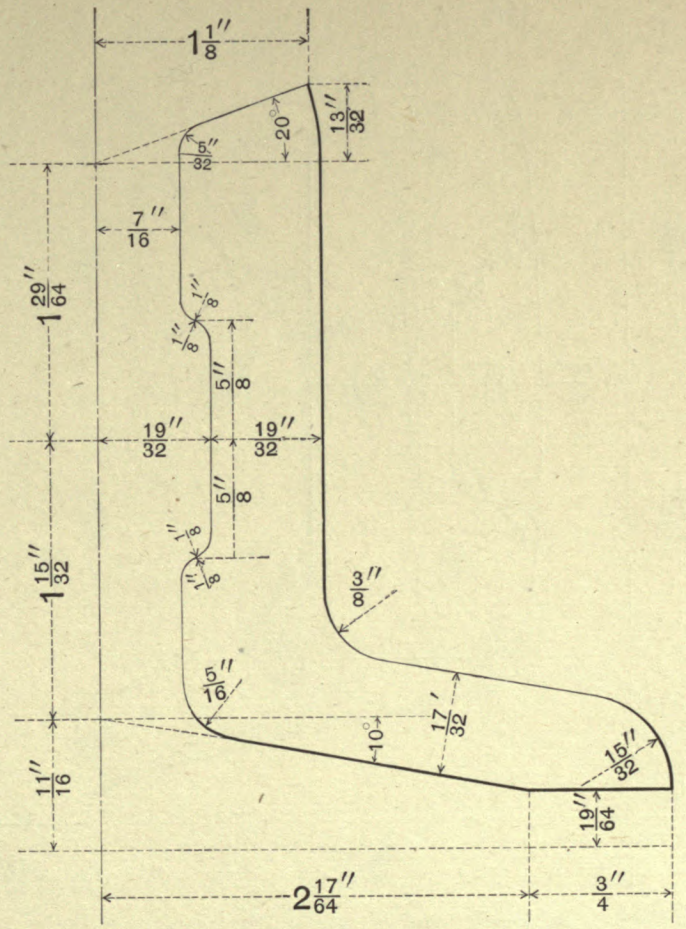


Angle Splice-plate Section No. 247-A

14.2 pounds per foot

21.13 kg. per meter

Fits rail section No. 247



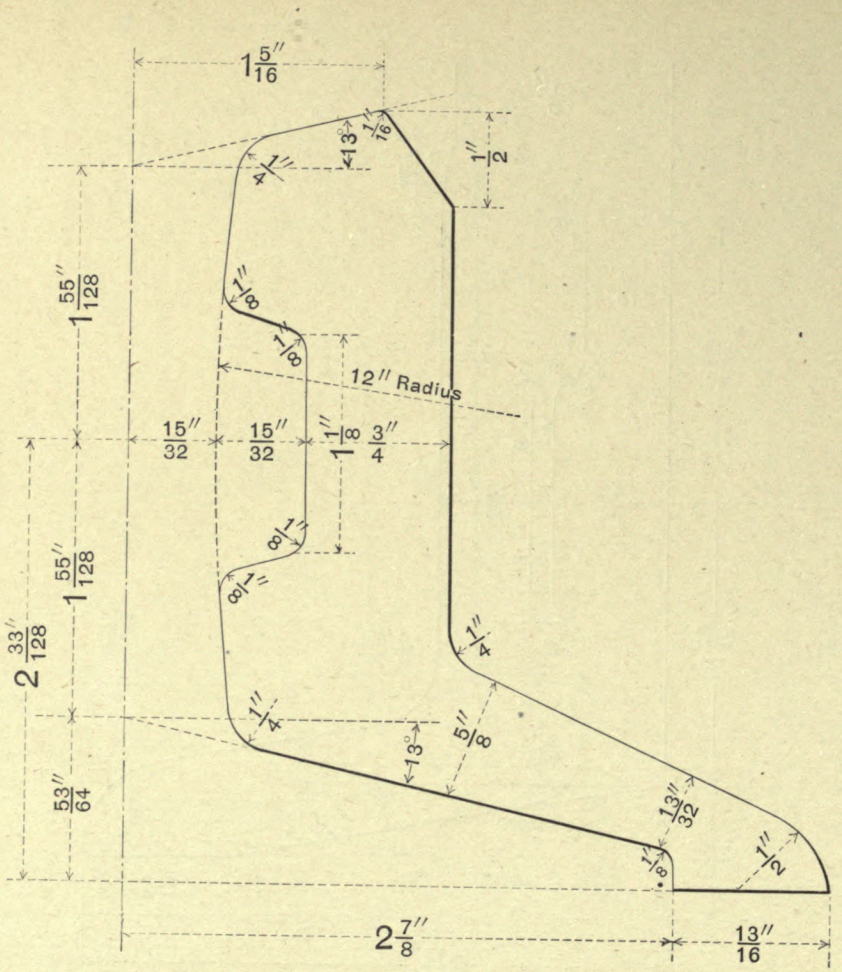
Angle Splice-plate Section No. 117-A

10.57 pounds per foot

15.73 kg. per meter

Fits rail section No. 117

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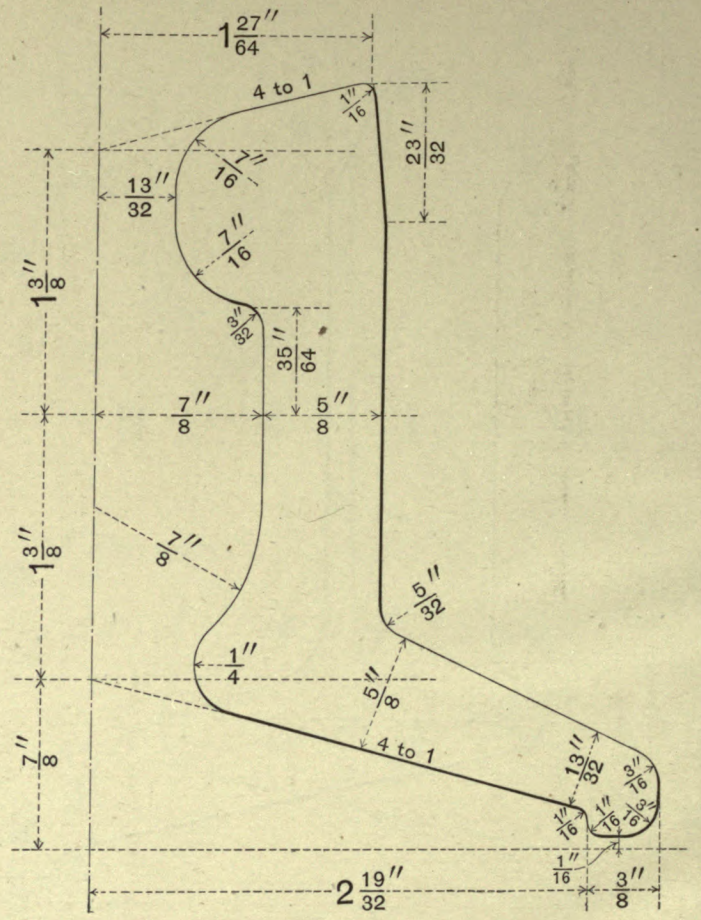


Angle Splice-plate Section No. 245-A

14.34 pounds per foot

21.42 kg. per meter

Fits rail section No. 245

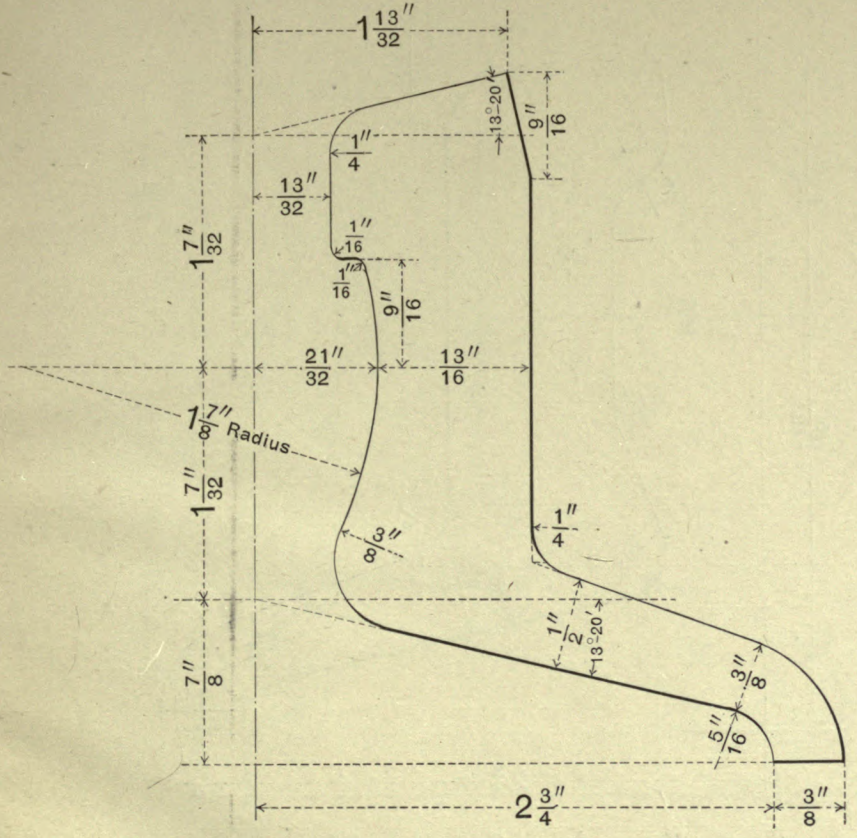


Angle Splice-plate Section No. D-80-5 1/8"

11.3 pounds per foot

16.8 kg. per meter

Fits rail sections Nos. 220, 221, 261

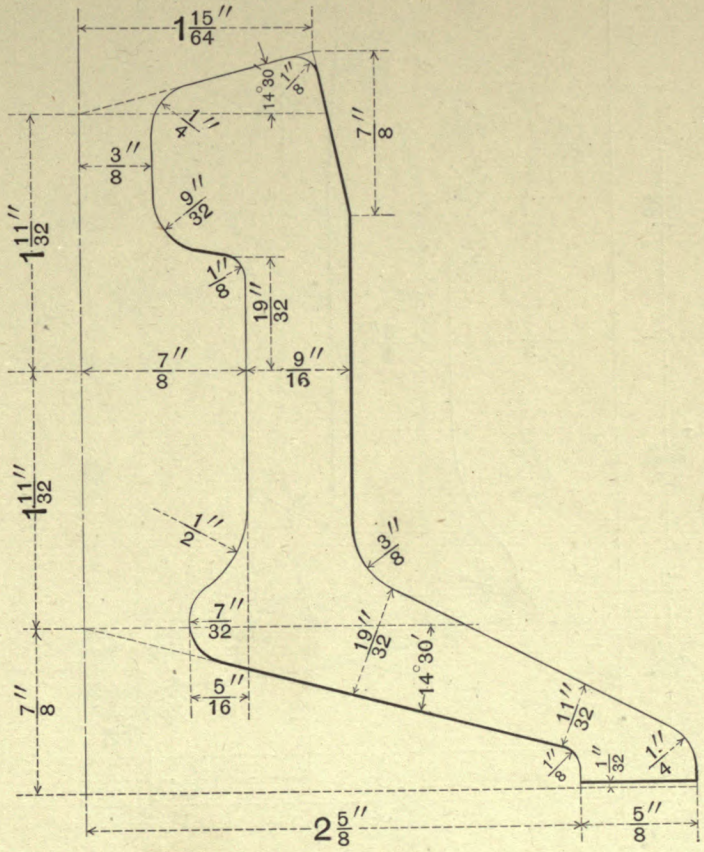


Angle Splice-plate Section No. 89

11.7 pounds per foot

17.41 kg. per meter

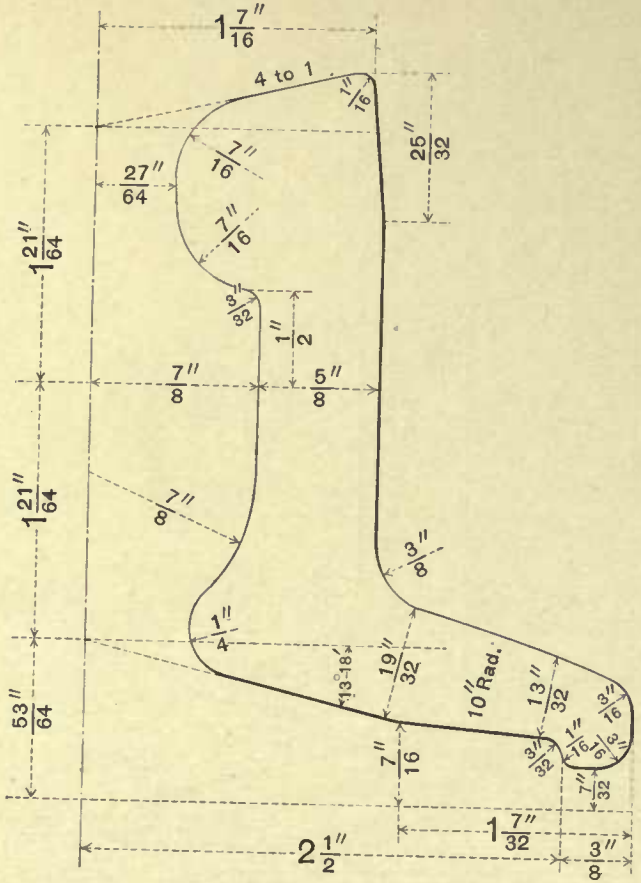
Fits rail sections Nos. 237 and 114



Angle Splice-plate Section No. 72

10.9 pounds per foot

16.22 kg. per meter

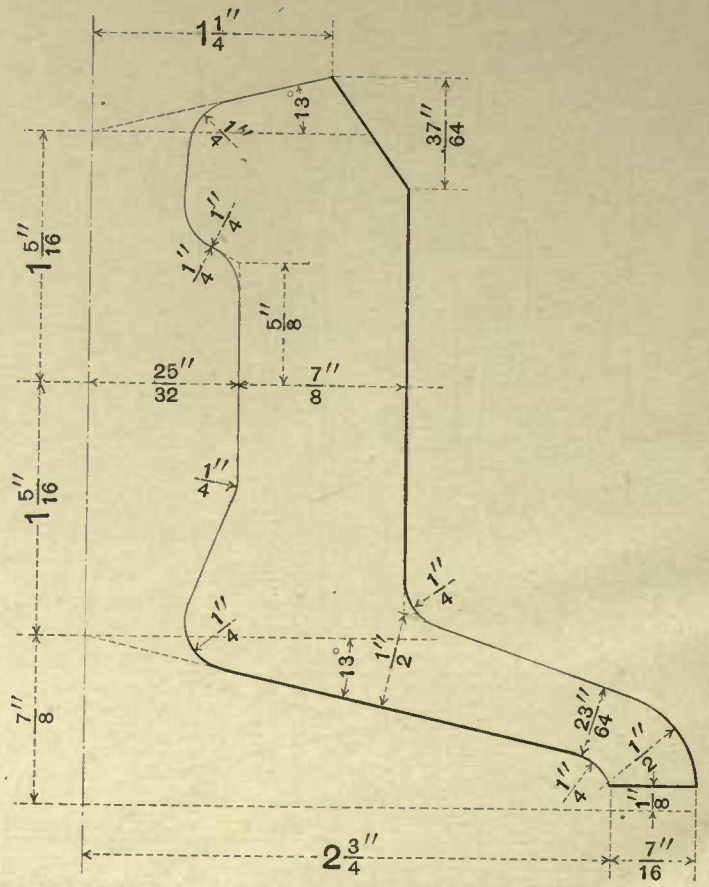


Angle Splice-plate Section No. D-80-5″

10.50 pounds per foot

15.68 kg. per meter

Fits "Dudley" 80-pound rail 5″ high

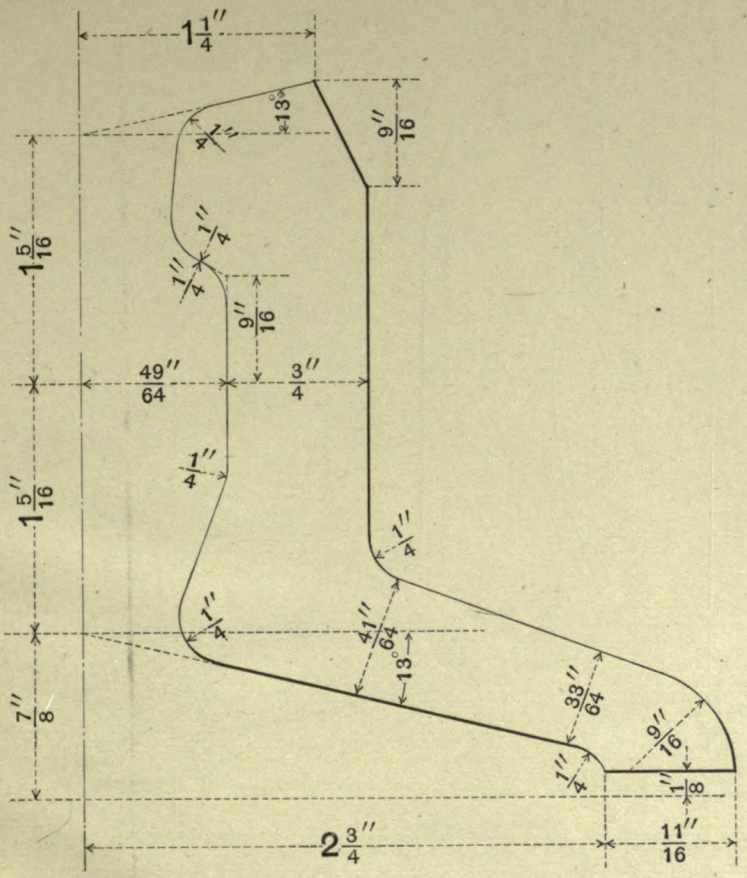


Angle Splice-plate Section No. 251-A

11.95 pounds per foot

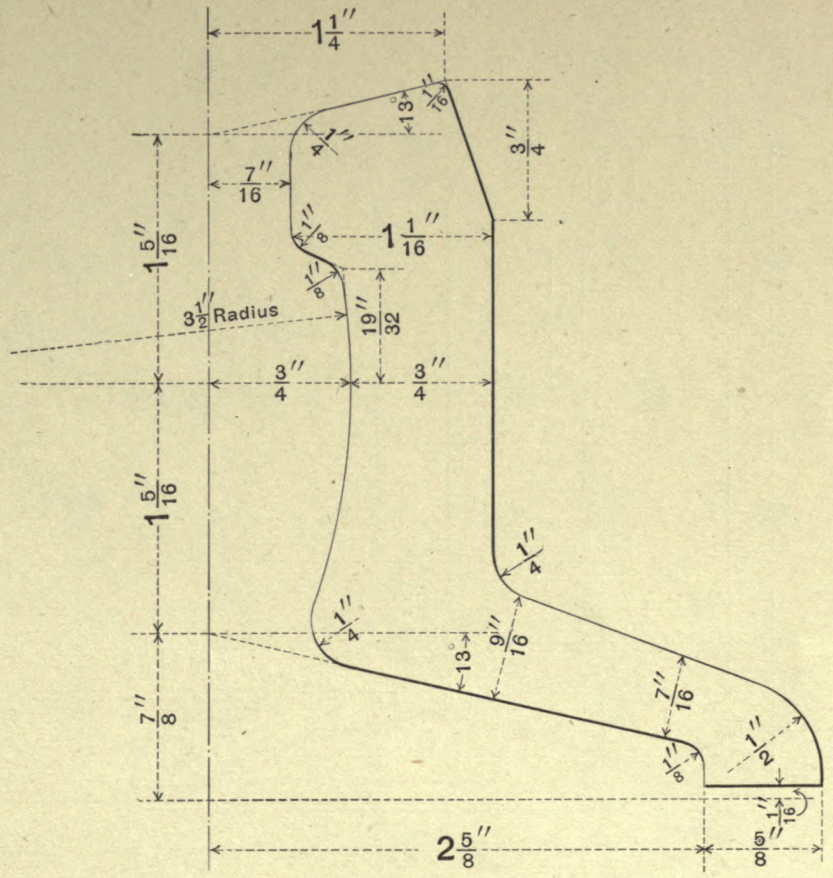
17.72 kg. per meter

Fits rail section No. 251



Angle Splice-plate Section No. 251-B

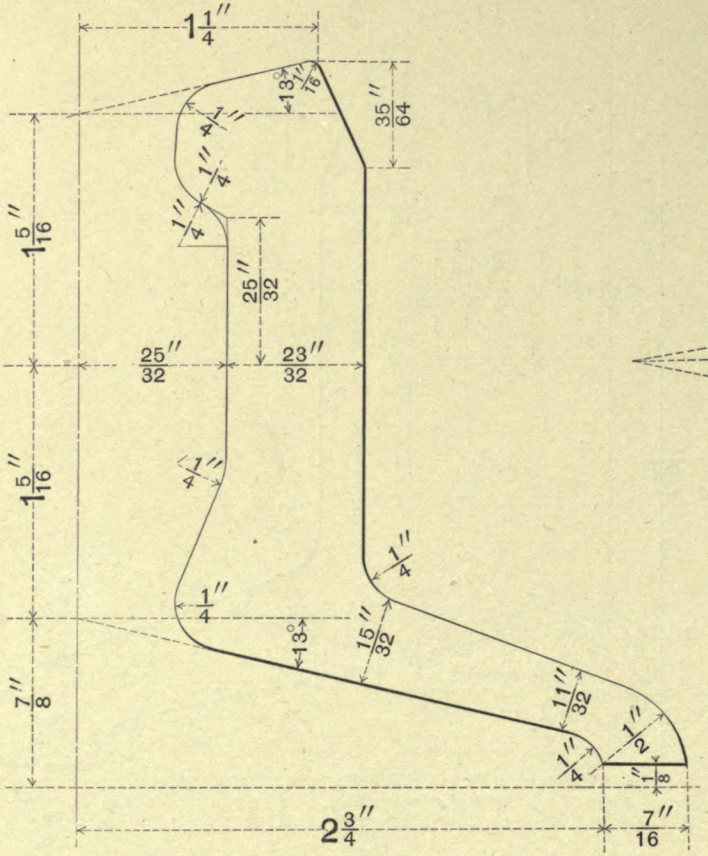
11.9 pounds per foot
17.71 kg. per meter
Fits rail section No. 251



Angle Splice-plate Section No. 251-C

11.5 pounds per foot
17.12 kg. per meter
Fits rail section No. 251

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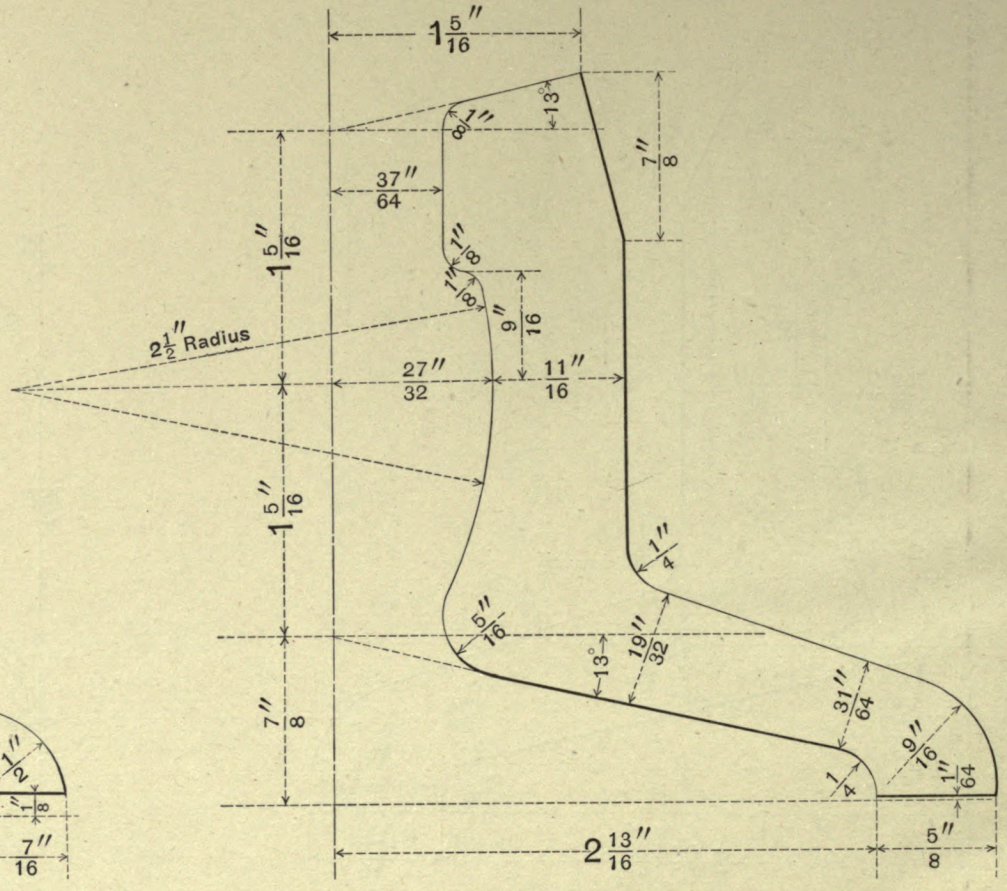


Angle Splice-plate Section No. 251-D

10.5 pounds per foot

15.63 kg. per meter

Fits rail section No. 251

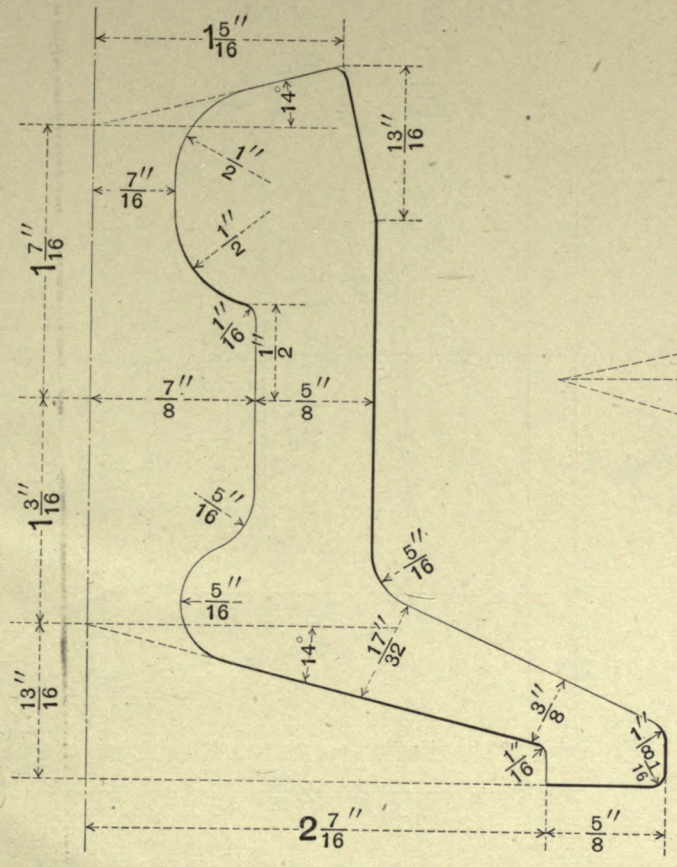


Angle Splice-plate Section "I"

11.9 pounds per foot

17.71 kg. per meter

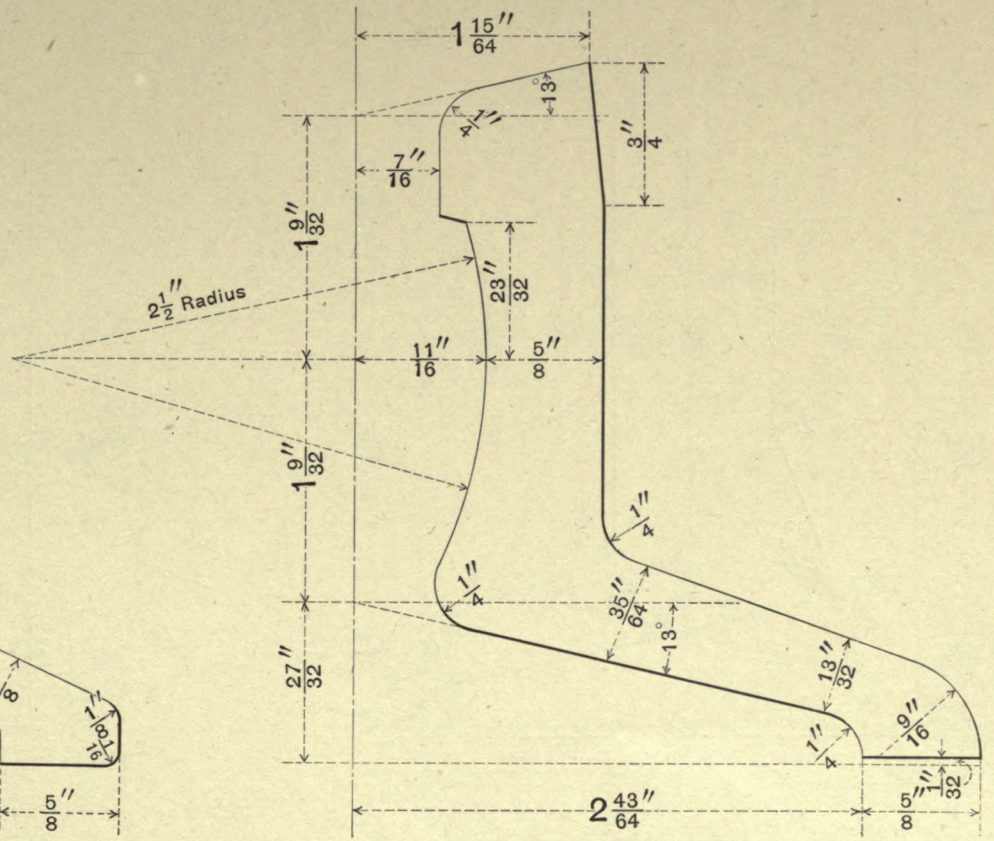
Fits rail section No. 251



Angle Splice-plate Section "F"

10.9 pounds per foot

16.22 kg. per meter



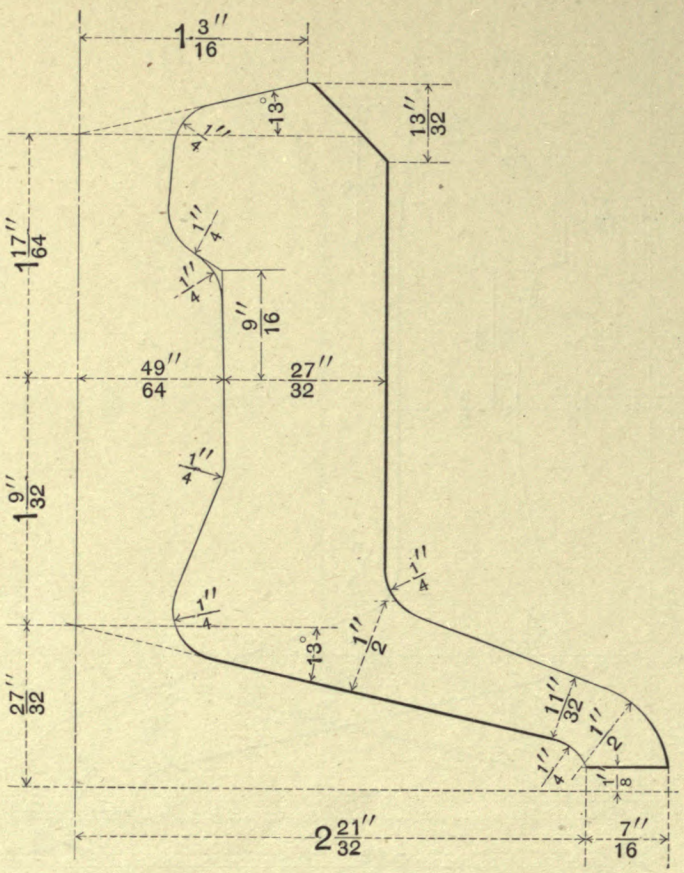
Angle Splice-plate Section "H"

10.4 pounds per foot

15.48 kg. per meter

Fits rail section No. 214

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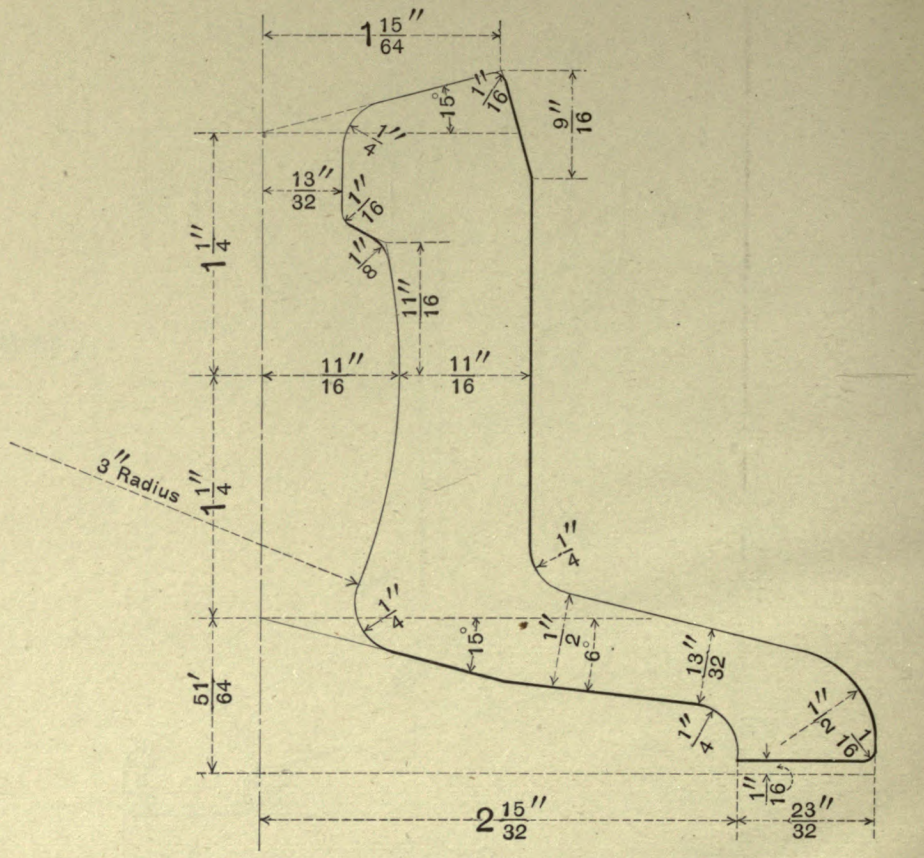


Angle Splice-plate Section No. 214-A

11.7 pounds per foot

17.41 kg. per meter

Fits rail section No. 214

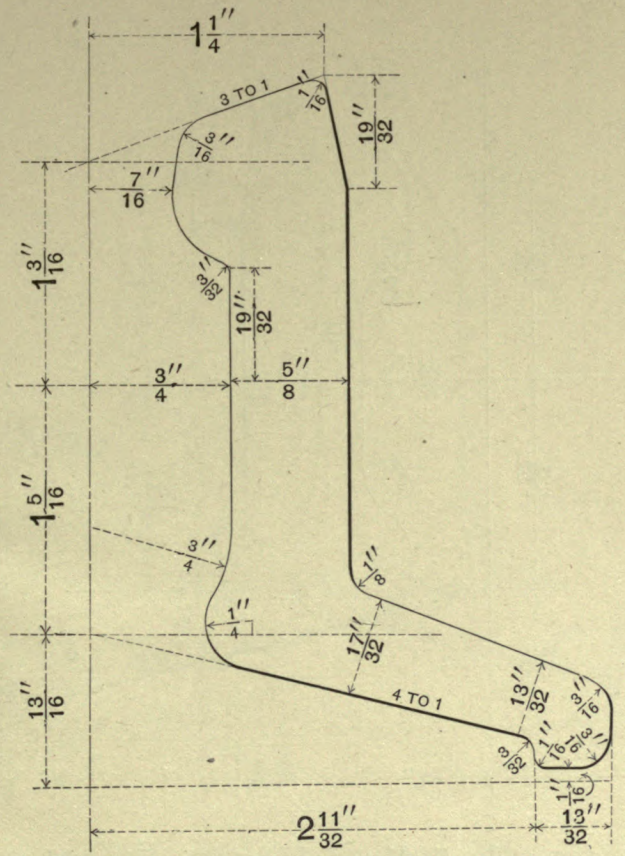


Angle Splice-plate Section No. 126-A

11.0 pounds per foot

16.37 kg. per meter

Fits rail section No. 126

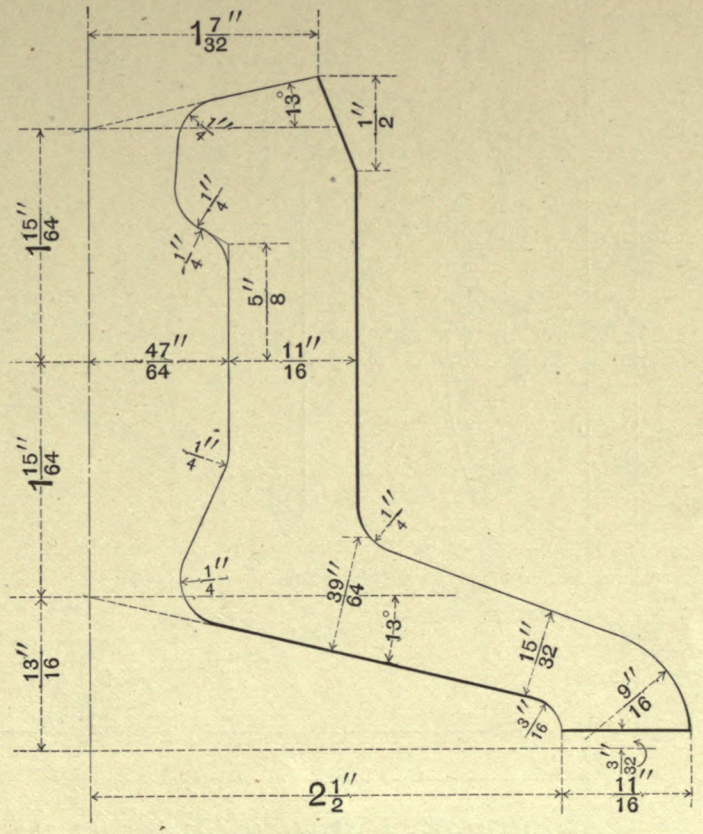


Angle Splice-plate Section No. D-65-4⅝"

9.18 pounds per foot

13.66 kg. per meter

Fits "Dudley" 65-pound rail, 4⅝" high



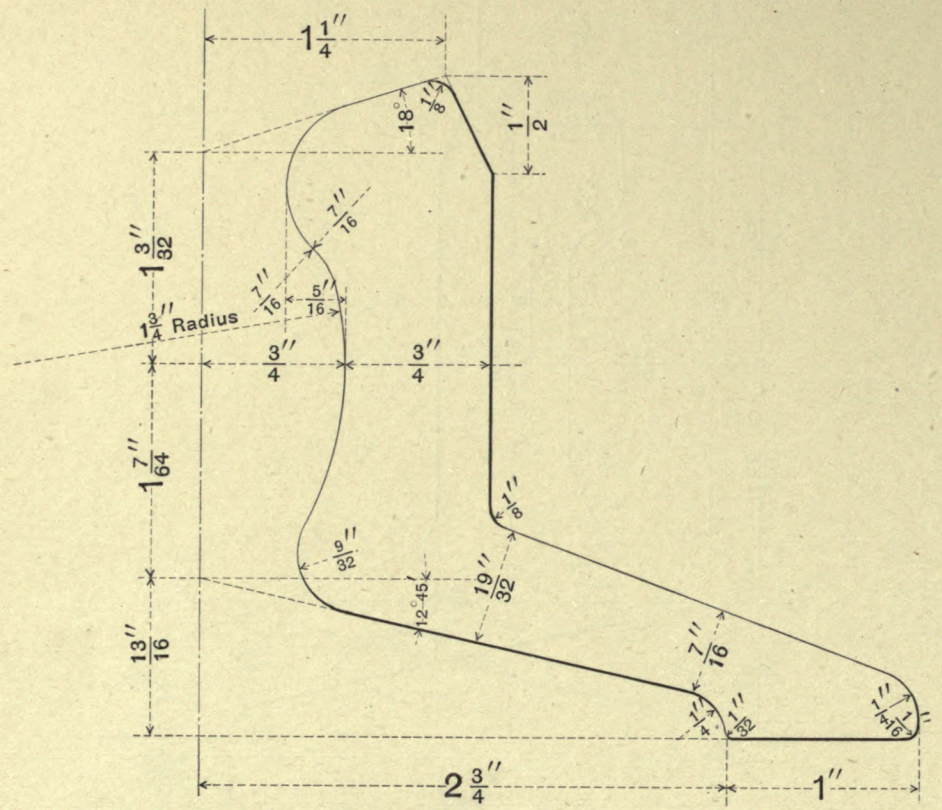
Angle Splice-plate Section No. 237-A

10.4 pounds per foot

15.48 kg. per meter

Fits rail section No. 237

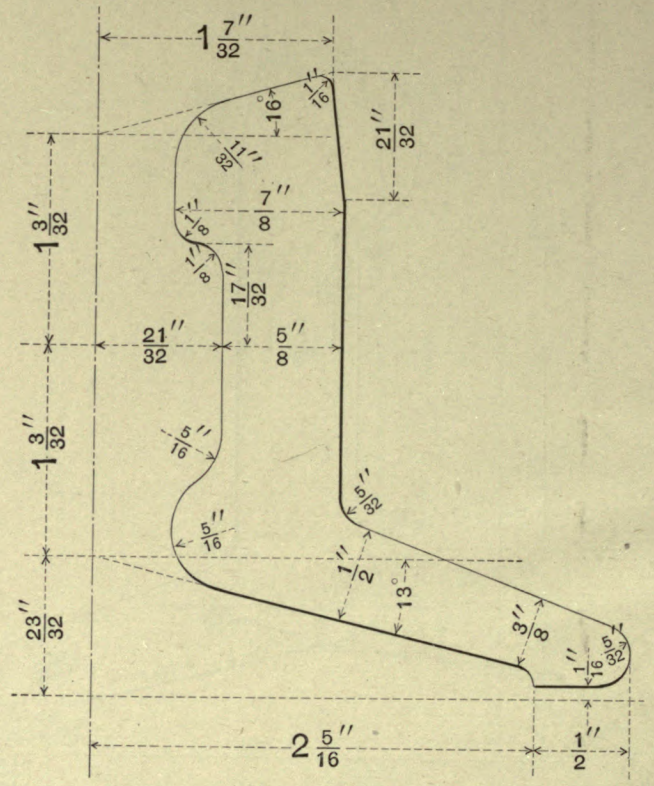
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Angle Splice-plate Section "L"

11.5 pounds per foot

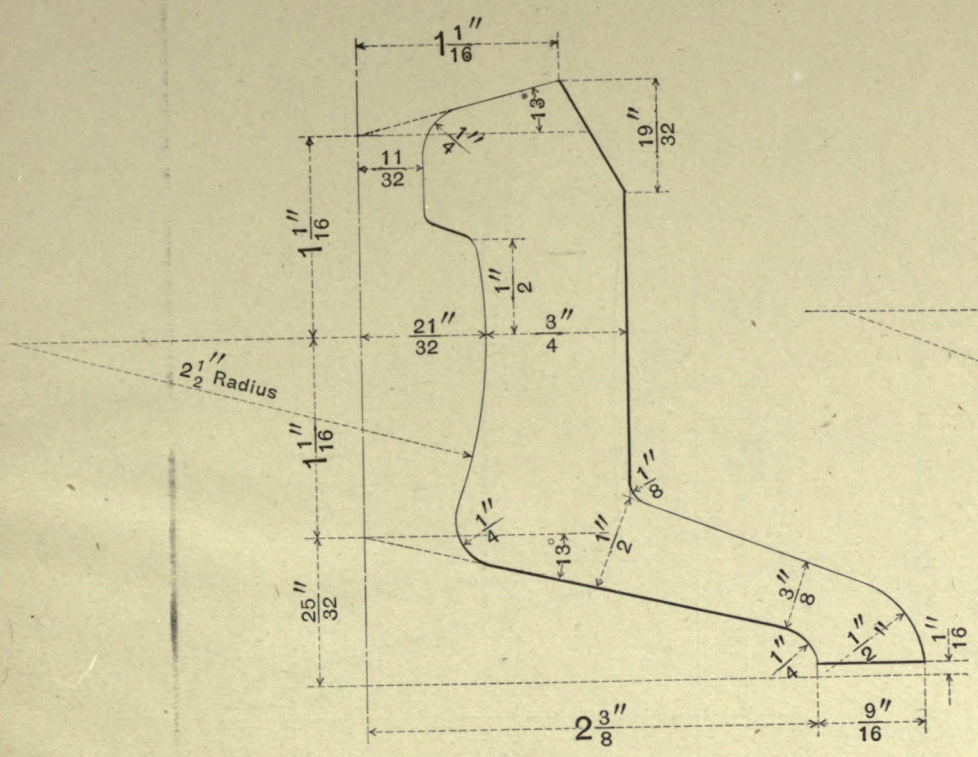
17.12 kg. per meter



Angle Splice-plate Section No. 28

8.5 pounds per foot

12.65 kg. per meter

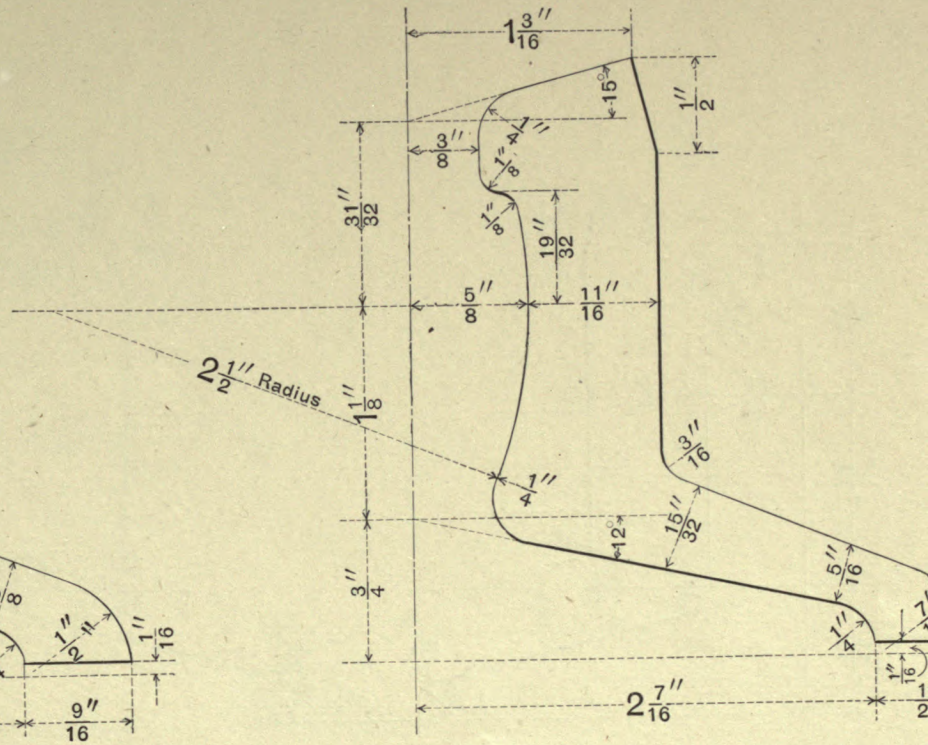


Angle Splice-plate Section No. 57-A

9.2 pounds per foot

13.69 kg. per meter

Fits rail section No. 57

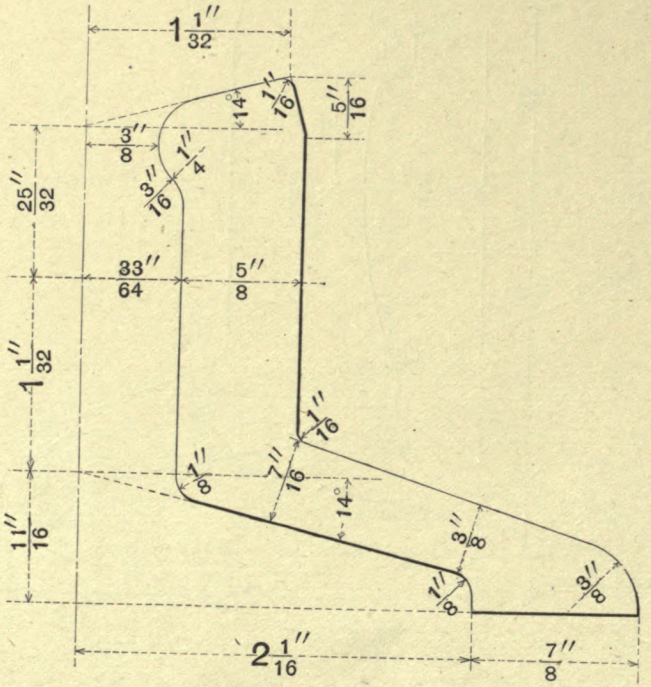


Angle Splice-plate Section No. 70

8.6 pounds per foot

12.80 kg. per meter

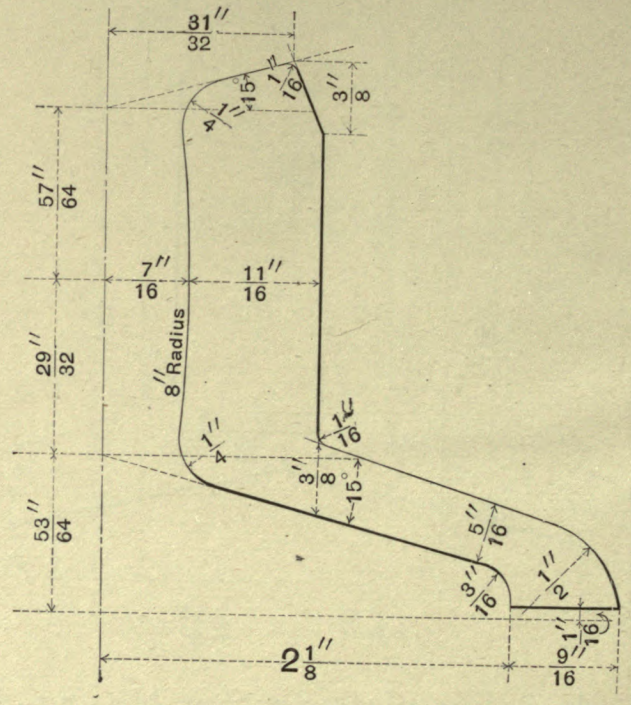
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Angle Splice-plate Section No. 1018

7.1 pounds per foot

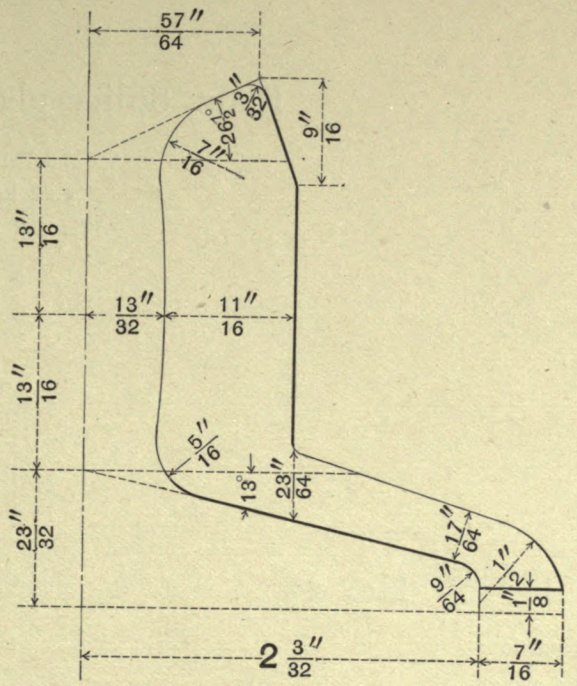
10.56 kg. per meter



Angle Splice-plate Section No. 4

7.0 pounds per foot

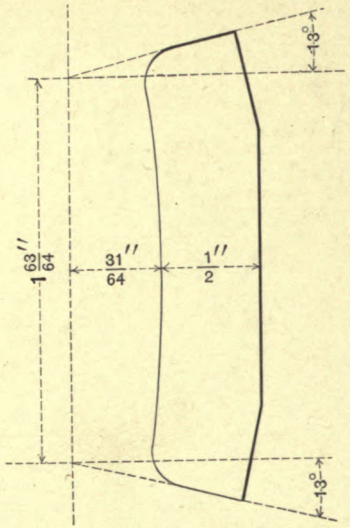
10.42 kg. per meter



Angle Splice-plate Section "J"

6.33 pounds per foot

9.42 kg. per meter



Plain Splice-plate Section No. 22

Plain Splice-plate Section No. 22

3.5 pounds per foot

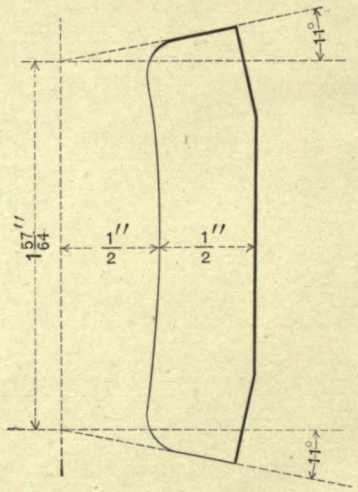
5.21 kg. per meter

Fits rail section No. 22

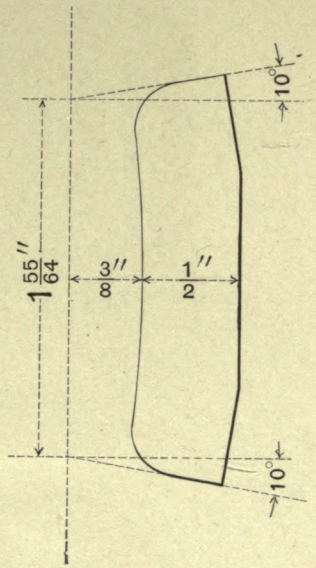
Plain Splice-plate Section No. 25

3.65 pounds per foot

5.43 kg. per meter



Plain Splice-plate Section No. 25

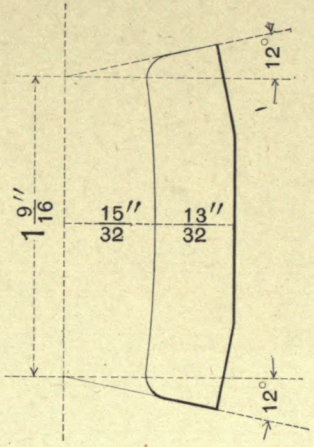


Plain Splice-plate Section No. 32

3.22 pounds per foot

4.79 kg. per meter

Fits rail sections Nos. 32 and 36



Plain Splice-plate Section No. 43

2.62 pounds per foot

3.89 kg. per meter

Fits rail sections Nos. 44 and 43

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